

# ST Tanks Bare

**LAARS**  
Heating Systems Company

**Specifications**

Date:  Bid Date:

Project #:  Location:

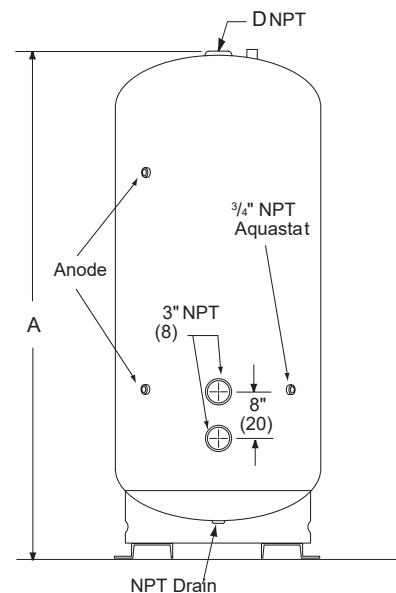
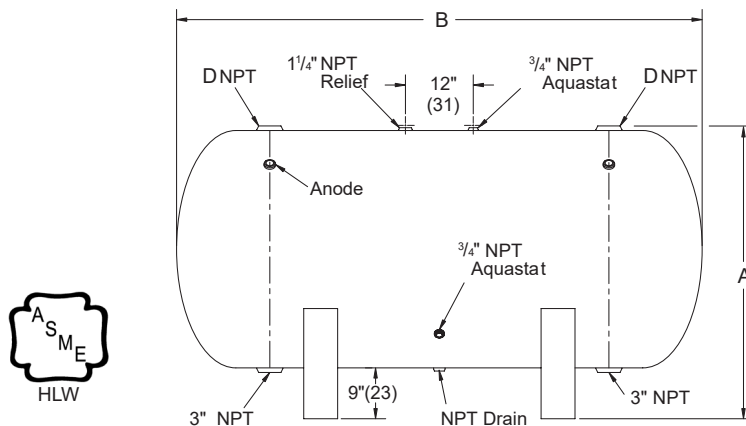
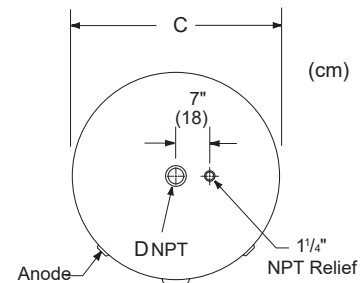
Project Name:  Engineer:

Contractor:  Prepared By:

## Standard Features

The Large Volume Bare Storage Tank Models Feature:

- Vertical or Horizontal Construction—Horizontal models require two saddles and have two additional 3" NPT fittings.
- Bare Storage Tank—Heavy gauge steel with a red oxide primer.
- Glass Lining—An exclusively engineered enamel formula that provides superior tank protection from the highly corrosive effects of hot water. This formula is fused to the steel surface by firing at a temperature of over 1600°F (871°C).
- Optional Linings - Double glass lining or epoxy linings are available.
- Water Connections—Two female 3" NPT fittings are located on the front for ease of service and installation. Additional size fittings are available as an option.
- Magnesium Anode Rods—Provide added protection against corrosion for long trouble-free service.
- One 3/4" NPT Aquastat Fitting—Located in the lower part of the tank.
- Lifting Lugs—Standard.
- Optional Hand Hole Cleanout and Manway—4" x 6" (102mm x 152mm) diameter Hand Hole cleanout and 12"x16" (305mm x 406mm) diameter
- Manway opening allow removal of sediment and inspection of interior surface.  
— Manway standard on all tanks with a vessel diameter of 42" (1067mm) or greater.
- Optional Sparge Tube—Stainless steel, dielectrically isolated recirculation tube minimizes turbulence and directs the hottest water to the top of the tank to maximize hot water delivery.
- Designed for Storage of Potable Water up to 180°F (82°C).
- All Tanks Are Constructed and Certified—In accordance with ASME Sect. IV, Part HLW for 125 PSI (862 kPa). 150 PSI (1034 kPa) is available as an option.
- Warranty - Glass lined tanks carry a 5-year limited warranty.  
Double glass lined tanks carry a 10-year limited warranty.  
Epoxy lined tanks carry a 1 year limited warranty.  
Parts carry a 1-year limited warranty



NOTE: Most storage tanks are manufactured with convex heads and bases. Some manufacturers list the tank capacity as "Nominal." Generally, this is the theoretical capacity calculated assuming a tank was actually manufactured using a flat (instead of convex) head and base. LAARS lists both Actual and Nominal capacity for comparison purposes.

## Model ST Bare Storage Tanks - Dimensional Data

| Model Number    | Capacity  |        |          |        | A                 |                    |                   |                    | B                       |       | C                  |       | D                   | Weight      |              |            |             |
|-----------------|-----------|--------|----------|--------|-------------------|--------------------|-------------------|--------------------|-------------------------|-------|--------------------|-------|---------------------|-------------|--------------|------------|-------------|
|                 | (gallons) |        | (liters) |        | Vert. Height (in) | Horiz. Height (in) | Vert. Height (cm) | Horiz. Height (cm) | Horiz. Length (in) (cm) |       | Diameter (in) (cm) |       | Hot Out Conn. (NPT) | Vert. (lbs) | Horiz. (lbs) | Vert. (kg) | Horiz. (kg) |
|                 | Nominal   | Actual | Nominal  | Actual |                   |                    |                   |                    |                         |       |                    |       |                     |             |              |            |             |
| ST(*)**B 30 063 | 193       | 175    | 731      | 662    | 67                | 39                 | 170.2             | 99.1               | 63                      | 160.0 | 30                 | 76.2  | 2½"                 | 340         | 365          | 154        | 166         |
| ST(*)**B 30 075 | 229       | 210    | 867      | 795    | 79                | 39                 | 200.7             | 99.1               | 75                      | 190.5 | 30                 | 76.2  | 2½"                 | 387         | 412          | 176        | 187         |
| ST(*)**B 30 085 | 260       | 240    | 984      | 908    | 89                | 39                 | 226.1             | 99.1               | 85                      | 215.9 | 30                 | 76.2  | 2½"                 | 420         | 545          | 191        | 247         |
| ST(*)**B 30 099 | 303       | 280    | 1147     | 1060   | 103               | 39                 | 261.6             | 99.1               | 99                      | 251.5 | 30                 | 76.2  | 2½"                 | 483         | 508          | 219        | 230         |
| ST(*)**B 30 111 | 340       | 320    | 1287     | 1211   | 115               | 39                 | 292.1             | 99.1               | 111                     | 281.9 | 30                 | 76.2  | 2½"                 | 530         | 555          | 240        | 252         |
| ST(*)**B 36 072 | 318       | 285    | 1204     | 1079   | 76                | 45                 | 193.0             | 114.3              | 72                      | 182.9 | 36                 | 91.4  | 2½"                 | 550         | 576          | 249        | 261         |
| ST(*)**B 36 078 | 344       | 310    | 1302     | 1173   | 82                | 45                 | 208.3             | 114.3              | 78                      | 198.1 | 36                 | 91.4  | 2½"                 | 588         | 614          | 267        | 279         |
| ST(*)**B 36 085 | 375       | 340    | 1420     | 1287   | 89                | 45                 | 226.1             | 114.3              | 85                      | 215.9 | 36                 | 91.4  | 2½"                 | 633         | 659          | 287        | 299         |
| ST(*)**B 36 090 | 397       | 360    | 1503     | 1363   | 94                | 45                 | 238.8             | 114.3              | 90                      | 228.6 | 36                 | 91.4  | 2½"                 | 664         | 690          | 301        | 313         |
| ST(*)**B 36 102 | 449       | 415    | 1700     | 1571   | 106               | 45                 | 269.2             | 114.3              | 102                     | 259.1 | 36                 | 91.4  | 2½"                 | 742         | 768          | 337        | 348         |
| ST(*)**B 36 114 | 502       | 465    | 1900     | 1760   | 118               | 45                 | 299.7             | 114.3              | 114                     | 289.6 | 36                 | 91.4  | 2½"                 | 818         | 844          | 371        | 383         |
| ST(*)**B 36 126 | 555       | 515    | 2101     | 1949   | 130               | 45                 | 330.2             | 114.3              | 126                     | 320.0 | 36                 | 91.4  | 2½"                 | 894         | 920          | 406        | 417         |
| ST(*)**B 42 081 | 486       | 435    | 1840     | 1647   | 85                | 51                 | 215.9             | 129.5              | 81                      | 205.7 | 42                 | 106.7 | 3"                  | 783         | 810          | 355        | 367         |
| ST(*)**B 42 084 | 504       | 453    | 1908     | 1715   | 88                | 51                 | 223.5             | 129.5              | 84                      | 213.4 | 42                 | 106.7 | 3"                  | 805         | 832          | 365        | 377         |
| ST(*)**B 42 093 | 558       | 505    | 2112     | 1912   | 97                | 51                 | 246.4             | 129.5              | 93                      | 236.2 | 42                 | 106.7 | 3"                  | 874         | 901          | 396        | 409         |
| ST(*)**B 42 105 | 630       | 575    | 2385     | 2177   | 109               | 51                 | 276.9             | 129.5              | 105                     | 266.7 | 42                 | 106.7 | 3"                  | 963         | 990          | 437        | 440         |
| ST(*)**B 42 117 | 702       | 645    | 2657     | 2442   | 121               | 51                 | 307.3             | 129.5              | 117                     | 297.2 | 42                 | 106.7 | 3"                  | 1052        | 1079         | 477        | 489         |
| ST(*)**B 42 129 | 774       | 720    | 2930     | 2725   | 133               | 51                 | 337.8             | 129.5              | 129                     | 327.7 | 42                 | 106.7 | 3"                  | 1140        | 1167         | 517        | 529         |
| ST(*)**B 42 139 | 834       | 776    | 3157     | 2937   | 143               | 51                 | 363.2             | 129.5              | 139                     | 353.1 | 42                 | 106.7 | 3"                  | 1217        | 1244         | 552        | 564         |
| ST(*)**B 48 073 | 572       | 500    | 2165     | 1893   | 77                | 57                 | 195.6             | 144.8              | 73                      | 185.4 | 48                 | 121.9 | 3"                  | 1038        | 1090         | 474        | 494         |
| ST(*)**B 48 084 | 658       | 580    | 2491     | 2196   | 88                | 57                 | 223.5             | 144.8              | 84                      | 213.4 | 48                 | 121.9 | 3"                  | 1161        | 1213         | 528        | 551         |
| ST(*)**B 48 096 | 752       | 675    | 2847     | 2555   | 100               | 57                 | 254.0             | 144.8              | 96                      | 243.8 | 48                 | 121.9 | 3"                  | 1298        | 1350         | 589        | 612         |
| ST(*)**B 48 108 | 846       | 765    | 3202     | 2896   | 112               | 57                 | 284.5             | 144.8              | 108                     | 274.3 | 48                 | 121.9 | 3"                  | 1433        | 1485         | 650        | 674         |
| ST(*)**B 48 120 | 940       | 860    | 3558     | 3255   | 124               | 57                 | 315.0             | 144.8              | 120                     | 304.8 | 48                 | 121.9 | 3"                  | 1567        | 1619         | 711        | 734         |
| ST(*)**B 48 141 | 1128      | 1040   | 4270     | 3937   | 145               | 57                 | 368.3             | 144.8              | 141                     | 358.1 | 48                 | 121.9 | 3"                  | 1805        | 1857         | 819        | 842         |
| ST(*)**B 48 168 | 1306      | 1225   | 4944     | 4637   | 172               | 57                 | 436.9             | 144.8              | 168                     | 426.7 | 48                 | 121.9 | 3"                  | 2186        | 2238         | 992        | 955         |
| ST(*)**B 54 099 | 981       | 875    | 3713     | 3312   | 105               | 63                 | 266.7             | 160.0              | 99                      | 251.5 | 54                 | 137.2 | 3"                  | 1596        | 1696         | 724        | 769         |
| ST(*)**B 54 113 | 1119      | 1000   | 4236     | 3785   | 119               | 63                 | 302.3             | 160.0              | 113                     | 287.0 | 54                 | 137.2 | 3"                  | 1827        | 1949         | 829        | 884         |
| ST(*)**B 54 123 | 1219      | 1110   | 4614     | 4202   | 129               | 63                 | 327.7             | 160.0              | 123                     | 312.4 | 54                 | 137.2 | 3"                  | 1889        | 2124         | 857        | 963         |
| ST(*)**B 54 134 | 1327      | 1217   | 5023     | 4607   | 140               | 63                 | 355.6             | 160.0              | 134                     | 340.4 | 54                 | 137.2 | 3"                  | 1969        | 2252         | 893        | 1043        |
| ST(*)**B 54 147 | 1457      | 1340   | 5515     | 5072   | 153               | 63                 | 388.6             | 160.0              | 147                     | 373.4 | 54                 | 137.2 | 3"                  | 2182        | 2306         | 990        | 1046        |
| ST(*)**B 54 165 | 1635      | 1500   | 6189     | 5678   | 171               | 63                 | 434.3             | 160.0              | 165                     | 419.1 | 54                 | 137.2 | 3"                  | 2484        | 2734         | 1127       | 1240        |
| ST(*)**B 54 183 | 1814      | 1690   | 6867     | 6397   | 189               | 63                 | 480.1             | 160.0              | 183                     | 464.8 | 54                 | 137.2 | 3"                  | 2722        | 2972         | 1235       | 1348        |
| ST(*)**B 60 096 | 1174      | 1000   | 4444     | 3785   | 102               | 69                 | 259.1             | 175.3              | 96                      | 243.8 | 60                 | 152.4 | 3"                  | 2007        | 2548         | 910        | 925         |
| ST(*)**B 60 114 | 1395      | 1245   | 5281     | 4713   | 120               | 69                 | 304.8             | 175.3              | 114                     | 289.6 | 60                 | 152.4 | 3"                  | 2376        | 2648         | 1078       | 1201        |
| ST(*)**B 60 138 | 1689      | 1530   | 6394     | 5792   | 144               | 69                 | 365.8             | 175.3              | 138                     | 350.5 | 60                 | 152.4 | 3"                  | 2797        | 2829         | 1269       | 1283        |
| ST(*)**B 60 168 | 1983      | 1820   | 7506     | 6889   | 174               | 69                 | 442.0             | 175.3              | 168                     | 426.7 | 60                 | 152.4 | 3"                  | 3210        | 3560         | 1456       | 1615        |
| ST(*)**B 60 177 | 2165      | 2000   | 8195     | 7571   | 183               | 69                 | 464.8             | 175.3              | 177                     | 449.6 | 60                 | 152.4 | 3"                  | 3481        | 3831         | 1579       | 1738        |
| ST(*)**B 60 186 | 2276      | 2105   | 8616     | 7968   | 192               | 69                 | 487.7             | 175.3              | 186                     | 472.4 | 60                 | 152.4 | 3"                  | 3639        | 3989         | 1651       | 1809        |
| ST(*)**B 60 210 | 2570      | 2395   | 9729     | 9066   | 216               | 69                 | 548.6             | 175.3              | 210                     | 533.4 | 60                 | 152.4 | 3"                  | 3922        | 4172         | 1779       | 1892        |
| ST(*)**B 72 100 | 1761      | 1538   | 6666     | 5822   | 106               | 81                 | 269.2             | 205.7              | 100                     | 254.0 | 72                 | 182.9 | 3"                  | 2677        | 2942         | 1214       | 1334        |
| ST(*)**B 72 117 | 2061      | 1800   | 7802     | 6814   | 123               | 81                 | 312.4             | 205.7              | 117                     | 297.2 | 72                 | 182.9 | 3"                  | 3035        | 3305         | 1377       | 1499        |
| ST(*)**B 72 120 | 2115      | 1865   | 8006     | 7060   | 126               | 81                 | 320.0             | 205.7              | 120                     | 304.8 | 72                 | 182.9 | 3"                  | 3099        | 3369         | 1406       | 1528        |
| ST(*)**B 72 128 | 2256      | 2000   | 8540     | 7571   | 134               | 81                 | 340.4             | 205.7              | 128                     | 325.1 | 72                 | 182.9 | 3"                  | 3267        | 3540         | 1482       | 1606        |
| ST(*)**B 72 144 | 2538      | 2285   | 9607     | 8650   | 150               | 81                 | 381.0             | 205.7              | 144                     | 365.8 | 72                 | 182.9 | 3"                  | 3304        | 3881         | 1499       | 1760        |
| ST(*)**B 72 157 | 2765      | 2500   | 10467    | 9464   | 163               | 81                 | 414.0             | 205.7              | 157                     | 398.8 | 72                 | 182.9 | 3"                  | 3878        | 4105         | 1759       | 1862        |
| ST(*)**B 72 168 | 2959      | 2727   | 11201    | 10323  | 174               | 81                 | 442.0             | 205.7              | 168                     | 426.7 | 72                 | 182.9 | 3"                  | 4110        | 4394         | 1864       | 1993        |
| ST(*)**B 72 192 | 3382      | 3147   | 12802    | 11913  | 198               | 81                 | 502.9             | 205.7              | 192                     | 487.7 | 72                 | 182.9 | 3"                  | 4616        | 4852         | 2094       | 2205        |
| ST(*)**B 72 216 | 3805      | 3567   | 14403    | 13503  | 222               | 81                 | 563.9             | 205.7              | 216                     | 548.6 | 72                 | 182.9 | 3"                  | 5122        | 5418         | 2323       | 2458        |
| ST(*)**B 72 250 | 4404      | 4162   | 16671    | 15755  | 256               | 81                 | 650.2             | 205.7              | 250                     | 635.0 | 72                 | 182.9 | 3"                  | 5616        | 6144         | 2547       | 2787        |
| ST(*)**B 84 121 | 2901      | 2500   | 10981    | 9464   | 127               | 93                 | 322.6             | 236.2              | 121                     | 307.3 | 84                 | 213.4 | 3"                  | 4265        | 4684         | 1935       | 2125        |
| ST(*)**B 84 138 | 3308      | 2915   | 12522    | 11034  | 144               | 93                 | 365.8             | 236.2              | 138                     | 350.5 | 84                 | 213.4 | 3"                  | 4747        | 5196         | 2153       | 2356        |
| ST(*)**B 84 162 | 3884      | 3480   | 14703    | 13173  | 168               | 93                 | 426.7             | 236.2              | 162                     | 411.5 | 84                 | 213.4 | 3"                  | 5428        | 5902         | 2462       | 2677        |
| ST(*)**B 84 186 | 4459      | 4045   | 16879    | 15312  | 192               | 93                 | 487.7             | 236.2              | 186                     | 472.4 | 84                 | 213.4 | 3"                  | 6109        | 6614         | 2771       | 3000        |
| ST(*)**B 84 210 | 5038      | 4610   | 19071    | 17451  | 216               | 93                 | 548.6             | 236.2              | 210                     | 533.4 | 84                 | 213.4 | 3"                  | 6789        | 7327         | 3079       | 3323        |
| ST(*)**B 84 256 | 6138      | 5695   | 23235    | 21558  | 262               | 93                 | 665.5             | 236.2              | 256                     | 650.2 | 84                 | 213.4 | 3"                  | 8094        | 8693         | 3671       | 3943        |

\* V=Vertical, H=Horizontal

\*\* G=Glass-lined, E=Epoxy-lined, D=Double-glass-lined, N=No lining

Example: STVGB60096

Laars Heating Systems Company reserves the right to change specifications, components, features, or to discontinue products without notice.