

ST Tanks Bare

LAARS
Heating Systems Company

Specifications

Date: Bid Date:

Project #: Location:

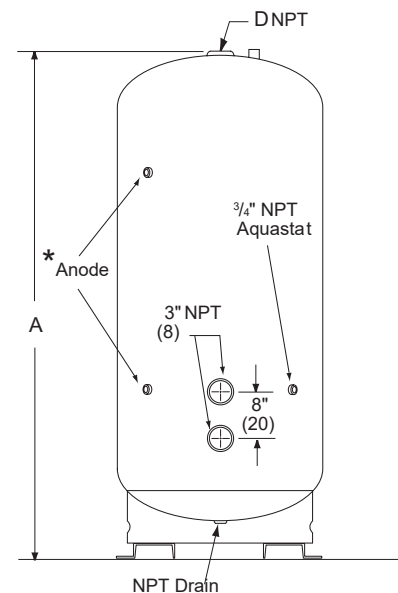
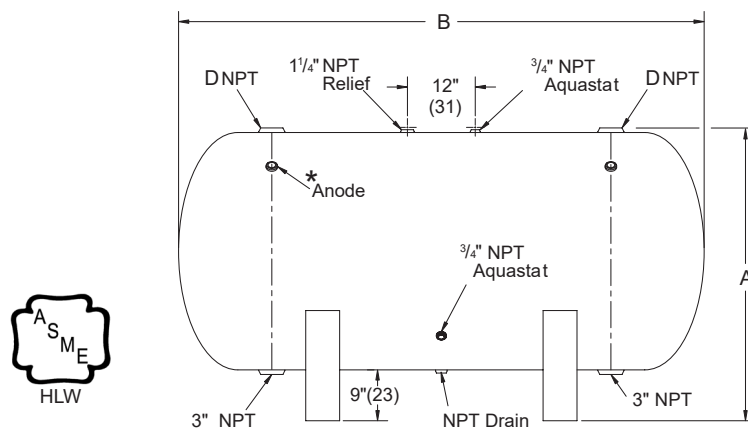
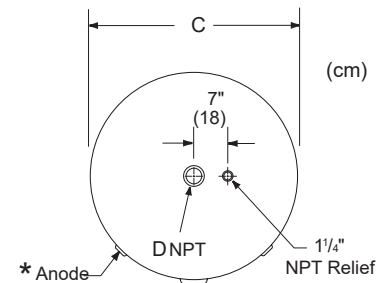
Project Name: Engineer:

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.
- Available with the following construction :
Standard Configuration: Carbon steel, glass-lined - carries a 5-year limited tank warranty
Carbon steel, epoxy-lined - carries a 1-year limited tank warranty
Carbon steel, double-glass-lined - carries a 10-year limited tank warranty
Carbon steel, no lining - carries a 1-year limited tank warranty
Duplex stainless steel - carries a 25-year limited tank warranty
316L stainless steel - carries a 10-year limited tank warranty
(other materials may be available - contact factory)
- Carbon steel tanks have exterior red oxide primer
- 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 (carbon steel tanks only)—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- 4" x 6" (102mm x 152mm) diameter.
- Manway opening 12x16" (305x406mm) diameter. 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.



*Anodes are used on carbon steel tanks only, The number of anodes changes, depending on tank size.

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 carbon steel, E=Epoxy-lined carbon steel, D=Double-glass-lined carbon steel, 2=Duplex stainless steel, 3= 316L stainless steel, N=Carbon steel with no lining
Example: STVGB60096

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