

ST Tanks with Insulating Foam & Top Coat

LAARS
Heating Systems Company

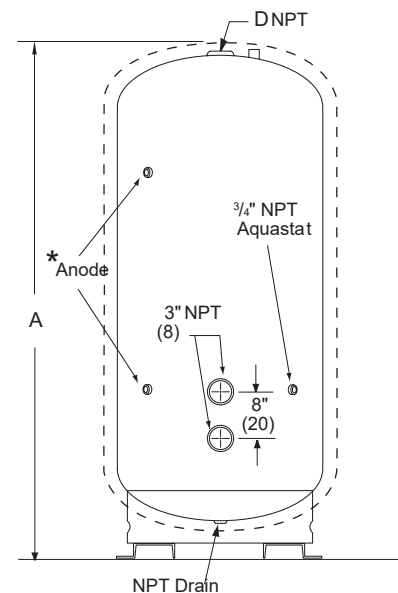
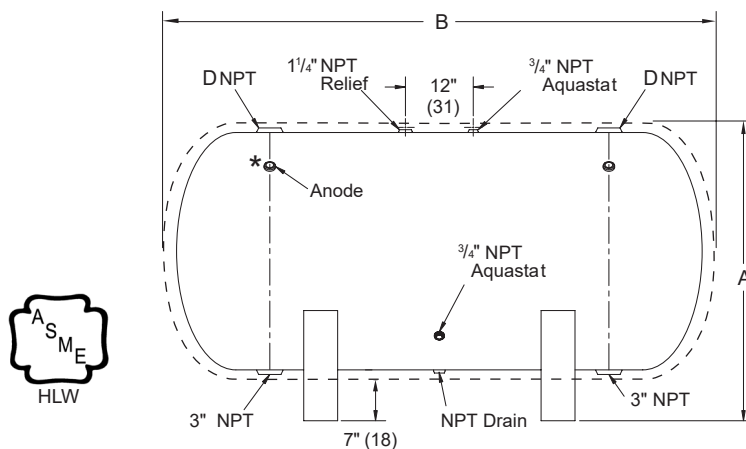
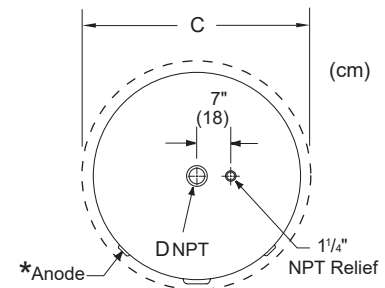
Specifications

Date:		Bid Date:	
Project #:		Location:	
Project Name:		Engineer:	
Contractor:		Prepared By:	

Standard Features

The Large Volume Top Coat Storage Tank Models Feature :

- Vertical or Horizontal Construction—Horizontal models require two saddles and have two additional 3" NPT fittings.
- Top Coat Storage Tank—With R-16 closed-cell insulating foam and top coat.
- 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)
- 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 Tanks with Insulating Foam and Top Coat - 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(*)** I 30 063	193	175	731	662	69.25	41.25	175.9	104.8	67.5	171.5	34.5	87.6	2½"	340	365	154	166
ST(*)** I 30 075	229	210	867	795	81.25	41.25	206.4	104.8	79.5	201.9	34.5	87.6	2½"	387	412	176	187
ST(*)** I 30 085	260	240	984	908	91.25	41.25	231.8	104.8	89.5	227.3	34.5	87.6	2½"	420	545	191	247
ST(*)** I 30 099	303	280	1147	1060	105.25	41.25	267.3	104.8	103.5	262.9	34.5	87.6	2½"	483	508	219	230
ST(*)** I 30 111	340	320	1287	1211	117.25	41.25	297.8	104.8	115.5	293.4	34.5	87.6	2½"	530	555	240	252
ST(*)** I 36 072	318	285	1204	1079	78.25	47.25	198.8	120.0	76.5	194.3	40.5	102.9	2½"	550	576	249	261
ST(*)** I 36 078	344	310	1302	1173	84.25	47.25	214.0	120.0	82.5	209.6	40.5	102.9	2½"	588	614	267	279
ST(*)** I 36 085	375	340	1420	1287	91.25	47.25	231.8	120.0	89.5	227.3	40.5	102.9	2½"	633	659	287	299
ST(*)** I 36 090	397	360	1503	1363	96.25	47.25	244.5	120.0	94.5	240.0	40.5	102.9	2½"	664	690	301	313
ST(*)** I 36 102	449	415	1700	1571	108.25	47.25	275.0	120.0	106.5	270.5	40.5	102.9	2½"	742	768	337	348
ST(*)** I 36 114	502	465	1900	1760	120.25	47.25	305.4	120.0	118.5	301.0	40.5	102.9	2½"	818	844	371	383
ST(*)** I 36 126	555	515	2101	1949	132.25	47.25	335.9	120.0	130.5	331.5	40.5	102.9	2½"	894	920	406	417
ST(*)** I 42 081	486	435	1840	1647	87.25	53.25	221.6	135.3	85.5	217.2	46.5	118.1	3"	783	810	355	367
ST(*)** I 42 084	504	453	1908	1715	90.25	53.25	229.2	135.3	88.5	224.8	46.5	118.1	3"	805	832	365	377
ST(*)** I 42 093	558	505	2112	1912	99.25	53.25	252.1	135.3	97.5	247.7	46.5	118.1	3"	874	901	396	409
ST(*)** I 42 105	630	575	2385	2177	111.25	53.25	282.6	135.3	109.5	278.1	46.5	118.1	3"	963	990	437	440
ST(*)** I 42 117	702	645	2657	2442	123.25	53.25	313.1	135.3	121.5	308.6	46.5	118.1	3"	1052	1079	477	489
ST(*)** I 42 129	774	720	2930	2725	135.25	53.25	343.5	135.3	133.5	339.1	46.5	118.1	3"	1140	1167	517	529
ST(*)** I 42 139	834	776	3157	2937	145.25	53.25	368.9	135.3	143.5	364.5	46.5	118.1	3"	1217	1244	552	564
ST(*)** I 48 073	572	500	2165	1893	79.25	59.25	201.3	150.5	77.5	196.9	52.5	133.4	3"	1038	1090	474	494
ST(*)** I 48 084	658	580	2491	2196	90.25	59.25	229.2	150.5	88.5	224.8	52.5	133.4	3"	1161	1213	528	551
ST(*)** I 48 096	752	675	2847	2555	102.25	59.25	259.7	150.5	100.5	255.3	52.5	133.4	3"	1298	1350	589	612
ST(*)** I 48 108	846	765	3202	2896	114.25	59.25	290.2	150.5	112.5	285.8	52.5	133.4	3"	1433	1485	650	674
ST(*)** I 48 120	940	860	3558	3255	126.25	59.25	320.7	150.5	124.5	316.2	52.5	133.4	3"	1567	1619	711	734
ST(*)** I 48 141	1128	1040	4270	3937	147.25	59.25	374.0	150.5	145.5	369.6	52.5	133.4	3"	1805	1857	819	842
ST(*)** I 48 168	1306	1225	4944	4637	174.25	59.25	442.6	150.5	172.5	438.2	52.5	133.4	3"	2186	2238	992	955
ST(*)** I 54 099	981	875	3713	3312	107.25	65.25	272.4	165.7	103.5	262.9	58.5	148.6	3"	1596	1696	724	769
ST(*)** I 54 123	1219	1110	4614	4202	131.25	65.25	333.4	165.7	127.5	323.9	58.5	148.6	3"	1889	2124	857	963
ST(*)** I 54 147	1457	1340	5515	5072	155.25	65.25	394.3	165.7	151.5	384.8	58.5	148.6	3"	2182	2306	990	1046
ST(*)** I 54 165	1635	1500	6189	5678	173.25	65.25	440.1	165.7	169.5	430.5	58.5	148.6	3"	2484	2734	1127	1240
ST(*)** I 54 183	1814	1690	6867	6397	191.25	65.25	485.8	165.7	187.5	476.3	58.5	148.6	3"	2722	2972	1235	1348
ST(*)** I 60 096	1174	1000	4444	3785	104.25	71.25	264.8	181.0	100.5	255.3	64.5	163.8	3"	2007	2548	910	925
ST(*)** I 60 114	1395	1245	5281	4713	122.25	71.25	310.5	181.0	118.5	301.0	64.5	163.8	3"	2376	2648	1078	1201
ST(*)** I 60 138	1689	1530	6394	5792	146.25	71.25	371.5	181.0	142.5	362.0	64.5	163.8	3"	2797	2829	1269	1283
ST(*)** I 60 177	2165	2000	8195	7571	185.25	71.25	470.5	181.0	181.5	461.0	64.5	163.8	3"	3481	3831	1579	1738
ST(*)** I 60 186	2276	2105	8616	7968	194.25	71.25	493.4	181.0	190.5	483.9	64.5	163.8	3"	3639	3989	1651	1809
ST(*)** I 60 210	2570	2395	9729	9066	218.25	71.25	554.4	181.0	214.5	544.8	64.5	163.8	3"	3922	4172	1779	1892
ST(*)** I 72 100	1761	1538	6666	5822	108.25	83.25	275.0	211.5	104.5	265.4	76.5	194.3	3"	2677	2942	1214	1334
ST(*)** I 72 117	2061	1800	7802	6814	125.25	83.25	318.1	211.5	121.5	308.6	76.5	194.3	3"	3035	3305	1377	1499
ST(*)** I 72 120	2115	1865	8006	7060	128.25	83.25	325.8	211.5	124.5	316.2	76.5	194.3	3"	3099	3369	1406	1528
ST(*)** I 72 128	2256	2000	8540	7571	136.25	83.25	346.1	211.5	132.5	336.6	76.5	194.3	3"	3267	3540	1482	1606
ST(*)** I 72 144	2538	2285	9607	8650	152.25	83.25	386.7	211.5	148.5	377.2	76.5	194.3	3"	3304	3881	1499	1760
ST(*)** I 72 157	2765	2500	10467	9464	165.25	83.25	419.7	211.5	161.5	410.2	76.5	194.3	3"	3878	4105	1759	1862
ST(*)** I 72 168	2959	2727	11201	10323	176.25	83.25	447.7	211.5	172.5	438.2	76.5	194.3	3"	4110	4394	1864	1993
ST(*)** I 72 192	3382	3147	12802	11913	200.25	83.25	508.6	211.5	196.5	499.1	76.5	194.3	3"	4616	4852	2094	2205
ST(*)** I 72 216	3805	3567	14403	13503	224.25	83.25	569.6	211.5	220.5	560.1	76.5	194.3	3"	5122	5418	2323	2458
ST(*)** I 72 250	4404	4162	16671	15755	258.25	83.25	656.0	211.5	254.5	646.4	76.5	194.3	3"	5616	6144	2547	2787
ST(*)** I 84 121	2901	2500	10981	9464	129.25	95.25	328.3	241.9	125.5	318.8	88.5	224.8	3"	4265	4684	1935	2125
ST(*)** I 84 138	3308	2915	12522	11034	146.25	95.25	371.5	241.9	142.5	362.0	88.5	224.8	3"	4747	5196	2153	2356
ST(*)** I 84 162	3884	3480	14703	13173	170.25	95.25	432.4	241.9	166.5	422.9	88.5	224.8	3"	5428	5902	2462	2677
ST(*)** I 84 186	4459	4045	16879	15312	194.25	95.25	493.4	241.9	190.5	483.9	88.5	224.8	3"	6109	6614	2771	3000
ST(*)** I 84 210	5038	4610	19071	17451	218.25	95.25	554.4	241.9	214.5	544.8	88.5	224.8	3"	6789	7327	3079	3323
ST(*)** I 84 256	6138	5695	23235	21558	264.25	95.25	671.2	241.9	260.5	661.7	88.5	224.8	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: STVGI42105

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