

ST Tanks Insulated with Steel Jacket

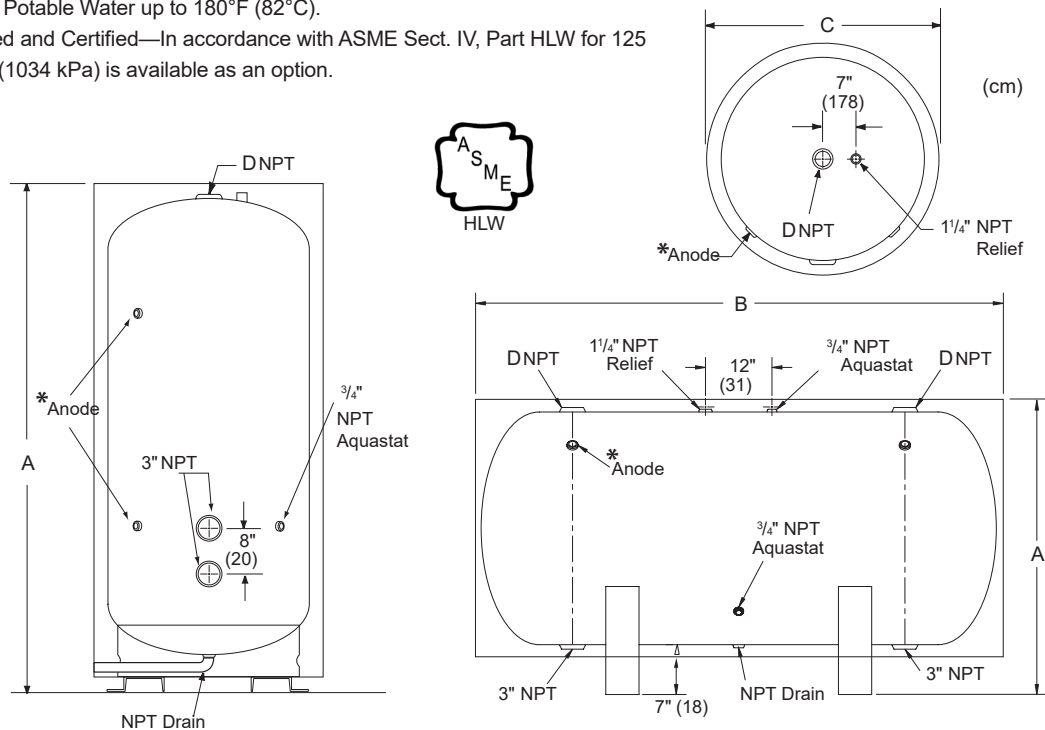
LAARS
Heating Systems Company
Specifications

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

Standard Features

The Large Volume Jacketed and Insulated Storage Tank Models Feature :

- Vertical or Horizontal Construction—Horizontal models require two saddles and have two additional 3" NPT fittings.
- Steel Jacket—Sturdy heavy gauge steel jacket over R-12 open-cell insulation.
- 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 Insulated Steel Jacket - Dimensional Data

Model Number	Capacity				A		B		C		D	Weight					
	(gallons)		(liters)		Vert. Height	Horiz. Height	Vert. Height	Horiz. Height	Horiz. Length	Diameter		Hot Out Conn.	Vert.	Horiz.	Vert.	Horiz.	
	Nominal	Actual	Nominal	Actual	(in)	(in)	(cm)	(cm)	(in)	(cm)	(in)	(cm)	(NPT)	(lbs)	(lbs)	(kg)	(kg)
ST(*)(**)J 30 063	193	175	731	662	71	41	180.3	104.1	67	170.2	34	86.4	2½"	548	570	249	259
ST(*)(**)J 30 075	229	210	867	795	83	41	210.8	104.1	79	200.7	34	86.4	2½"	613	638	278	290
ST(*)(**)J 30 085	260	240	984	908	93	41	236.2	104.1	89	226.1	34	86.4	2½"	673	755	305	342
ST(*)(**)J 30 099	303	280	1147	1060	107	41	271.8	104.1	103	261.6	34	86.4	2½"	700	728	318	330
ST(*)(**)J 30 111	340	320	1287	1211	119	41	302.3	104.1	115	292.1	34	86.4	2½"	730	774	331	351
ST(*)(**)J 36 072	318	285	1204	1079	80	47	203.2	119.4	76	193.0	40	101.6	2½"	714	776	324	352
ST(*)(**)J 36 078	344	310	1302	1173	86	47	218.4	119.4	82	208.3	40	101.6	2½"	782	827	355	375
ST(*)(**)J 36 085	375	340	1420	1287	93	47	236.2	119.4	89	226.1	40	101.6	2½"	845	876	383	397
ST(*)(**)J 36 090	397	360	1503	1363	98	47	248.9	119.4	94	238.8	40	101.6	2½"	894	935	406	424
ST(*)(**)J 36 102	449	415	1700	1571	110	47	279.4	119.4	106	269.2	40	101.6	2½"	982	1016	445	461
ST(*)(**)J 36 114	502	465	1900	1760	122	47	309.9	119.4	118	299.7	40	101.6	2½"	1106	1157	502	525
ST(*)(**)J 36 126	555	515	2101	1949	134	47	340.4	119.4	130	330.2	40	101.6	2½"	1194	1260	542	572
ST(*)(**)J 42 081	486	435	1840	1647	89	53	226.1	134.6	85	215.9	46	116.8	3"	1024	1110	464	503
ST(*)(**)J 42 084	504	453	1908	1715	92	53	233.7	134.6	88	223.5	46	116.8	3"	1074	1124	487	511
ST(*)(**)J 42 093	558	505	2112	1912	101	53	256.5	134.6	97	246.4	46	116.8	3"	1168	1191	530	536
ST(*)(**)J 42 105	630	575	2385	2177	113	53	287.0	134.6	109	276.9	46	116.8	3"	1292	1352	586	615
ST(*)(**)J 42 117	702	645	2657	2442	125	53	317.5	134.6	121	307.3	46	116.8	3"	1392	1452	631	660
ST(*)(**)J 42 129	774	720	2930	2725	137	53	348.0	134.6	133	337.8	46	116.8	3"	1498	1548	679	704
ST(*)(**)J 42 139	834	776	3157	2937	147	53	373.4	134.6	143	363.2	46	116.8	3"	1587	1637	720	744
ST(*)(**)J 48 073	572	500	2165	1893	81	59	205.7	149.9	77	195.6	52	132.1	3"	1381	1449	626	657
ST(*)(**)J 48 084	658	580	2491	2196	92	59	233.7	149.9	88	223.5	52	132.1	3"	1539	1593	698	723
ST(*)(**)J 48 096	752	675	2847	2555	104	59	264.2	149.9	100	254.0	52	132.1	3"	1653	1750	750	794
ST(*)(**)J 48 108	846	765	3202	2896	116	59	294.6	149.9	112	284.5	52	132.1	3"	1803	1925	818	873
ST(*)(**)J 48 120	940	860	3558	3255	128	59	325.1	149.9	124	315.0	52	132.1	3"	1947	2069	883	938
ST(*)(**)J 48 141	1128	1040	4270	3937	149	59	378.5	149.9	145	368.3	52	132.1	3"	2216	2407	1005	1092
ST(*)(**)J 54 099	981	875	3713	3312	107	65	271.8	165.1	103	261.6	58	147.3	3"	2200	2275	998	1032
ST(*)(**)J 54 113	1119	1000	4236	3785	121	65	307.3	165.1	117	297.2	58	147.3	3"	2400	2475	1089	1123
ST(*)(**)J 54 123	1219	1110	4614	4202	129	65	327.7	165.1	127	322.6	58	147.3	3"	2575	2650	1168	1202
ST(*)(**)J 60 096	1174	1000	4444	3785	104	71	264.2	180.3	100	254.0	64	162.6	3"	2600	2675	1179	1213
ST(*)(**)J 60 114	1395	1245	5281	4713	122	71	309.9	180.3	118	299.7	64	162.6	3"	3050	3125	1383	1417
ST(*)(**)J 60 138	1689	1530	6394	5792	146	71	370.8	180.3	142	360.7	64	162.6	3"	3500	3575	1586	1622

* 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: STVGJ36102

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