



LARGE VOLUME TANK PRODUCTS

LAARS®
Heating Systems Company

LAARS Heating Systems Company has more than 70 years experience in providing customers with advanced product solutions to commercial hydronic and hot water applications. With unrivaled commitment to design, service and support, LAARS is the preferred choice of specifying engineers, facilities managers and mechanical contractors. Headquartered in Rochester NH, USA.

THE LAARS ADVANTAGE

Laars offers an incredible variety of tanks to suit nearly every application. Our advanced manufacturing facility and highly skilled craftsmen can provide the exact tank you need.

When it comes to tanks, Laars is the only name to consider

- Storage Tanks from 175 to 5,695 gallons
- Chilled Water Buffer Tanks from 130 to 2,000 gallons
- Hydraulic Separators (Hot Water Buffer Tanks) from 40 to 1000 gallons
- Expansion Bladder Tanks from 175 to 1040 gallons
- All Tanks are A.S.M.E code constructed and certified for 125 psi (862 kPa) working pressure, with higher pressure ratings available
- Carbon Steel and Stainless Steel Options
- Bare, Insulated with Steel Jacket, or Insulated with Topcoat Options
- Custom Tanks Built to Your Specifications

PROVEN PERFORMANCE

- **Carbon Steel Tank Linings**
 - » **Glass lined** – An exclusive, corrosion-resistant enamel coating is bonded to the interior surfaces at 1600°F and backed by a 5-year limited warranty
 - » **Double glass lined** – The glass lining process is repeated, providing a double layer of protection, and backed by a 10-year limited warranty.
 - » **Epoxy lined** – FDA Approved, corrosion-resistant lining is field repairable, and backed by a 1-year limited warranty.
- **Stainless Steel**
 - » Passivated 316L stainless steel backed by a 10-year limited warranty.
 - » Passivated duplex stainless steel backed by a 25-year limited warranty.
 - » Other stainless steel materials available

HIGH CAPACITY FURNACE

Used with our enamel (glass) linings, the furnace maintains tight temperature set-points for proper curing and fusion between the glass and the steel substrate. This large capacity furnace can process tanks up to 7' diameter x 16' long.



LAARS OFFERS SEVERAL TANK EXTERIORS TO MEET YOUR NEEDS

- ✓ **BARE TANKS**
- ✓ **TANKS WITH INSULATED JACKETS**
- ✓ **TANKS WITH INSULATION AND RIGID TOPCOAT**

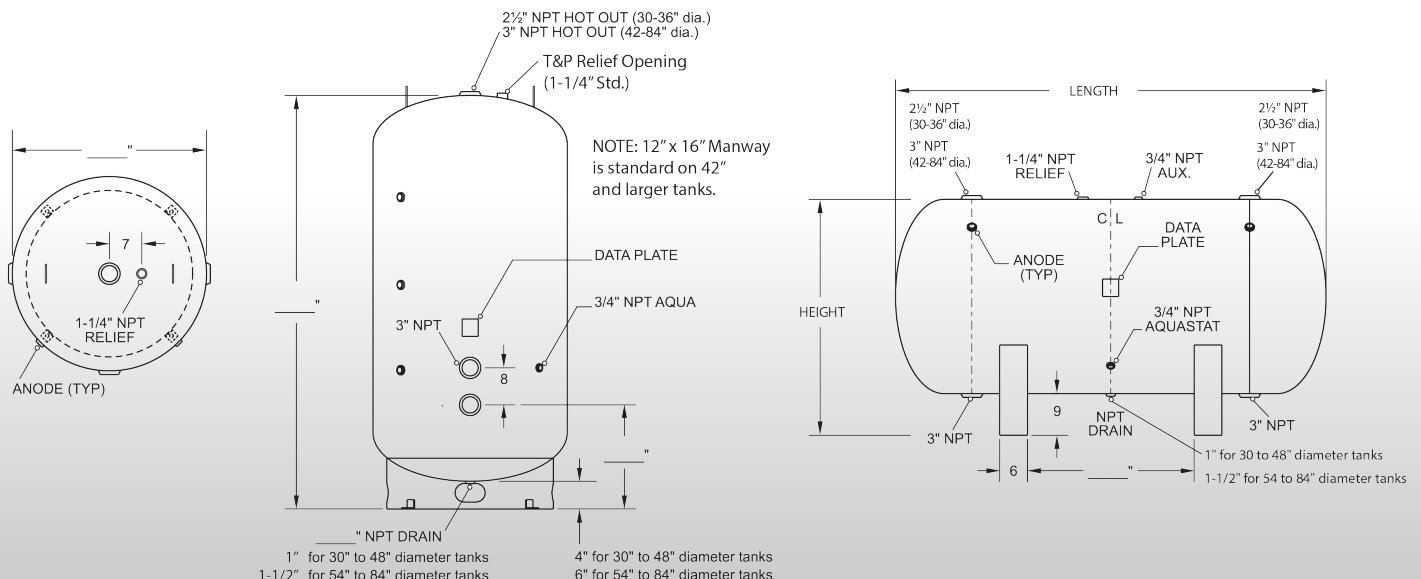
BARE TANKS - All sizes and types of tanks are offered bare, with no exterior coating, insulation or jacket. Red oxide primer is used on all bare carbon steel tanks.

TANKS WITH INSULATED STEEL JACKET - Two inches of high density spray foam insulation and a sturdy, heavy gauge steel jacket can be applied to tanks as large as 60" diameter and 141" long. Heat loss is minimized with an R-value of 12.5.

TANKS WITH INSULATION AND RIGID TOPCOAT - 2 1/4" of high-density polyurethane foam with an acrylic top coat has an R-value of 16, and is designed to withstand outdoor installation and a full range of environmental conditions. The coating is field-repairable, and can be applied to all sizes and types of tanks



LARGE VOLUME STORAGE TANKS - MODEL ST



BARE STORAGE TANKS - MODEL ST

SPECIFICATIONS

Model Number	Capacity***				Height				Length		Tank		Weight			
	Nominal		Actual		Vertical Tanks		Horizontal Tanks		Horizontal Tanks		Diameter		Vertical Tanks		Horizontal Tanks	
	gal	L	gal	L	in	cm	in	cm	in	cm	in	cm	lbs	kg	lbs	kg
ST(*)(**)B 30 063	193	731	175	662	67	170.2	39	99.1	63	160.0	30	76.2	340	154	365	166
ST(*)(**)B 30 075	229	867	210	795	79	200.7	39	99.1	75	190.5	30	76.2	387	176	412	187
ST(*)(**)B 30 085	260	984	240	908	89	226.1	39	99.1	85	215.9	30	76.2	420	191	545	247
ST(*)(**)B 30 099	303	1147	280	1060	103	261.6	39	99.1	99	251.5	30	76.2	483	219	508	230
ST(*)(**)B 30 111	340	1287	320	1211	115	292.1	39	99.1	111	281.9	30	76.2	530	240	555	252
ST(*)(**)B 36 072	318	1204	285	1079	76	193.0	45	114.3	72	182.9	36	91.4	550	249	576	261
ST(*)(**)B 36 078	344	1302	310	1173	82	208.3	45	114.3	78	198.1	36	91.4	588	267	614	279
ST(*)(**)B 36 085	375	1420	340	1287	89	226.1	45	114.3	85	215.9	36	91.4	633	287	659	299
ST(*)(**)B 36 090	397	1503	360	1363	94	238.8	45	114.3	90	228.6	36	91.4	664	301	690	313
ST(*)(**)B 36 102	449	1700	415	1571	106	269.2	45	114.3	102	259.1	36	91.4	742	337	768	348
ST(*)(**)B 36 114	502	1900	465	1760	118	299.7	45	114.3	114	289.6	36	91.4	818	371	844	383
ST(*)(**)B 36 126	555	2101	515	1949	130	330.2	45	114.3	126	320.0	36	91.4	894	406	920	417
ST(*)(**)B 42 081	486	1840	435	1647	85	215.9	51	129.5	81	205.7	42	106.7	783	355	810	367
ST(*)(**)B 42 084	504	1908	453	1715	88	223.5	51	129.5	84	213.4	42	106.7	805	365	832	377
ST(*)(**)B 42 093	558	2112	505	1912	97	246.4	51	129.5	93	236.2	42	106.7	874	396	874	397
ST(*)(**)B 42 105	630	2385	575	2177	109	276.9	51	129.5	105	266.7	42	106.7	963	437	900	409
ST(*)(**)B 42 117	702	2657	645	2442	121	307.3	51	129.5	117	297.2	42	106.7	1052	477	984	447
ST(*)(**)B 42 129	774	2930	720	2725	133	337.8	51	129.5	129	327.7	42	106.7	1140	517	1068	485
ST(*)(**)B 42 139	834	3157	776	2937	143	363.2	51	129.5	139	353.1	42	106.7	1217	552	1138	517
ST(*)(**)B 48 073	572	2165	500	1893	77	195.6	57	144.8	73	185.4	48	121.9	1038	474	1090	494
ST(*)(**)B 48 084	658	2491	580	2196	88	223.5	57	144.8	84	213.4	48	121.9	1161	528	1213	551
ST(*)(**)B 48 096	752	2847	675	2555	100	254.0	57	144.8	96	243.8	48	121.9	1298	589	1350	612
ST(*)(**)B 48 108	846	3202	765	2896	112	284.5	57	144.8	108	274.3	48	121.9	1433	650	1485	674
ST(*)(**)B 48 116	909	3436	836	3160	122	310.0	57	144.8	116	295.0	48	121.9	1522	691	CALL	CALL
ST(*)(**)B 48 120	940	3558	860	3255	124	315.0	57	144.8	120	304.8	48	121.9	1567	711	1619	734
ST(*)(**)B 48 141	1128	4270	1040	3937	145	368.3	57	144.8	141	358.1	48	121.9	1805	819	1857	842
ST(*)(**)B 48 168	1306	4944	1225	4637	172	436.9	57	144.8	168	426.7	48	121.9	2186	992	2160	981
ST(*)(**)B 54 099	981	3713	875	3312	105	266.7	63	160.0	99	251.5	54	137.2	1596	724	1696	769
ST(*)(**)B 54 113	1119	4236	1000	3785	119	302.3	63	160.0	113	287.0	54	137.2	1827	829	1949	884
ST(*)(**)B 54 123	1219	4614	1110	4202	129	327.7	63	160.0	123	312.4	54	137.2	1889	857	2124	963
ST(*)(**)B 54 134	1327	5023	1217	4607	140	355.6	63	160.0	134	340.4	54	137.2	1969	893	2252	1043
ST(*)(**)B 54 147	1457	5515	1340	5072	153	388.6	63	160.0	147	373.4	54	137.2	2182	990	2306	1046
ST(*)(**)B 54 156	1545	5849	1442	5459	162	411.0	63	160.0	156	396.0	54	137.2	CALL	CALL	2364	1073
ST(*)(**)B 54 160	1585	6001	1481	5607	166	422.0	63	160.0	160	406.0	54	137.2	2402	1091	CALL	CALL
ST(*)(**)B 54 165	1635	6189	1500	5678	171	434.3	63	160.0	165	419.1	54	137.2	2484	1127	2734	1240
ST(*)(**)B 54 183	1814	6867	1690	6397	189	480.1	63	160.0	183	464.8	54	137.2	2722	1235	2972	1348
ST(*)(**)B 60 096	1174	4444	1000	3785	102	259.1	69	175.3	96	243.8	60	152.4	2007	910	2548	925
ST(*)(**)B 60 114	1395	5281	1245	4713	120	304.8	69	175.3	114	289.6	60	152.4	2376	1078	2648	1201
ST(*)(**)B 60 128	1565	5925	1430	5414	134	340.0	69	175.3	128	325.0	60	152.4	2586	1147	2736	1242
ST(*)(**)B 60 138	1689	6394	1530	5792	144	365.8	69	175.3	138	350.5	60	152.4	2797	1269	2829	1283
ST(*)(**)B 60 168	1983	7506	1820	6889	174	442.0	69	175.3	168	426.7	60	152.4	3210	1456	3560	1615
ST(*)(**)B 60 177	2165	8195	2000	7571	183	464.8	69	175.3	177	449.6	60	152.4	3481	1579	3491	1585
ST(*)(**)B 60 186	2276	8616	2105	7968	192	487.7	69	175.3	186	472.4	60	152.4	3639	1651	3989	1809
ST(*)(**)B 60 210	2570	9729	2395	9066	216	548.6	69	175.3	210	533.4	60	152.4	3922	1779	4172	1892
ST(*)(**)B 72 094	1655	6266	1433	5425	100	254.0	81	205.7	94	239.0	60	152.4	2551	1158	CALL	CALL
ST(*)(**)B 72 100	1761	6666	1538	5822	106	269.2	81	205.7	100	254.0	72	182.9	2677	1214	2942	1334
ST(*)(**)B 72 117	2061	7802	1800	6814	123	312.4	81	205.7	117	297.2	72	182.9	3035	1377	3305	1499
ST(*)(**)B 72 120	2115	8006	1865	7060	126	320.0	81	205.7	120	304.8	72	182.9	3099	1406	3369	1528
ST(*)(**)B 72 128	2256	8540	2000	7571	134	340.4	81	205.7	128	325.1	72	182.9	3267	1482	3540	1606
ST(*)(**)B 72 144	2538	9607	2285	8650	150	381.0	81	205.7	144	365.8	72	182.9	3304	1499	3881	1760
ST(*)(**)B 72 157	2765	10467	2500	9464	163	414.0	81	205.7	157	398.8	72	182.9	3878	1759	4105	1862
ST(*)(**)B 72 168	2959	11201	2727	10323	174	442.0	81	205.7	168	426.7	72	182.9	4110	1864	4394	1993
ST(*)(**)B 72 192	3382	12802	3147	11913	198	502.9	81	205.7	192	487.7	72	182.9	4616	2094	4852	2205
ST(*)(**)B 72 216	3805	14403	3567	13503	222	563.9	81	205.7	216	548.6	72	182.9	5122	2323	5418	2458
ST(*)(**)B 72 250	4404	16671	4162	15755	256	650.2	81	205.7	250	635.0	72	182.9	5616	2547	6144	2787
ST(*)(**)B 84 121	2901	10981	2500	9464	127	322.6	93	236.2	121	307.3	84	213.4	4265	1935	4684	2125
ST(*)(**)B 84 138	3308	12522	2915	11034	144	365.8	93	236.2	138	350.5	84	213.4	4747	2153	5196	2356
ST(*)(**)B 84 162	3884	14703	3480	13173	168	426.7	93	236.2	162	411.5	84	213.4	5428	2462	5902	2677
ST(*)(**)B 84 186	4459	16879	4045	15312	192	487.7	93	236.2	186	472.4	84	213.4	6109	2771	6614	3000
ST(*)(**)B 84 210	5038	19071	4610	17451	216	548.6	93	236.2	210	533.4	84	213.4	6789	3079	7327	3323
ST(*)(**)B 84 256	6138	23235	5695	21558	262	665.5	93	236.2	256	650.2	84	213.4	8094	3671	8693	3943

* V=Vertical, H=Horizontal

** G=Glass-lined carbon steel, E=Epoxy-lined carbon steel, D=Double-glass-lined carbon steel, N=Carbon steel with no lining

2=Duplex stainless steel, 3=316L stainless steel

Example: STVGB60096

*** Nominal gallon capacity is listed for comparison purposes. It refers to a hypothetical measurement for a tank with a flat head and flat base.

A tank is actually built with an elliptical head and base, so Laars includes this actual capacity in addition to the hypothetical nominal capacity.

JACKETED STORAGE TANKS – MODEL ST

SPECIFICATIONS

Model Number	Capacity***				Height				Length		Tank		Weight			
	Nominal		Actual		Vertical Tanks		Horizontal Tanks		Horizontal Tanks		Diameter		Vertical Tanks		Horizontal Tanks	
	gal	L	gal	L	in	cm	in	cm	in	cm	in	cm	lbs	kg	lbs	kg
ST(*)(**)J 30 063	193	731	175	662	71	180.3	41	104.1	67	170.2	34	86.4	548	249	570	259
ST(*)(**)J 30 075	229	867	210	795	83	210.8	41	104.1	79	200.7	34	86.4	613	278	622	282
ST(*)(**)J 30 085	260	984	240	908	93	236.2	41	104.1	89	226.1	34	86.4	673	305	755	342
ST(*)(**)J 30 099	303	1147	280	1060	107	271.8	41	104.1	103	261.6	34	86.4	700	318	728	330
ST(*)(**)J 30 111	340	1287	320	1211	119	302.3	41	104.1	115	292.1	34	86.4	730	331	774	351
ST(*)(**)J 36 072	318	1204	285	1079	80	203.2	47	119.4	76	193.0	40	101.6	714	324	776	352
ST(*)(**)J 36 078	344	1302	310	1173	86	218.4	47	119.4	82	208.3	40	101.6	782	355	827	375
ST(*)(**)J 36 085	375	1420	340	1287	93	236.2	47	119.4	89	226.1	40	101.6	845	383	876	397
ST(*)(**)J 36 090	397	1503	360	1363	98	248.9	47	119.4	94	238.8	40	101.6	894	406	935	424
ST(*)(**)J 36 102	449	1700	415	1571	110	279.4	47	119.4	106	269.2	40	101.6	982	445	1016	461
ST(*)(**)J 36 114	502	1900	465	1760	122	309.9	47	119.4	118	299.7	40	101.6	1106	502	1157	525
ST(*)(**)J 36 126	555	2101	515	1949	134	340.4	47	119.4	130	330.2	40	101.6	1194	542	1260	572
ST(*)(**)J 42 081	486	1840	435	1647	89	226.1	53	134.6	85	215.9	46	116.8	1024	464	1110	503
ST(*)(**)J 42 084	504	1908	453	1715	92	233.7	53	134.6	88	223.5	46	116.8	1074	487	1049	476
ST(*)(**)J 42 093	558	2112	505	1912	101	256.5	53	134.6	97	246.4	46	116.8	1168	530	1181	536
ST(*)(**)J 42 105	630	2385	575	2177	113	287.0	53	134.6	109	276.9	46	116.8	1292	586	1263	573
ST(*)(**)J 42 117	702	2657	645	2442	125	317.5	53	134.6	121	307.3	46	116.8	1392	631	1352	614
ST(*)(**)J 42 129	774	2930	720	2725	137	348.0	53	134.6	133	337.8	46	116.8	1498	679	1460	663
ST(*)(**)J 42 139	834	3157	776	2937	147	373.4	53	134.6	143	363.2	46	116.8	1587	720	1637	743
ST(*)(**)J 48 073	572	2165	500	1893	81	205.7	59	149.9	77	195.6	52	132.1	1381	626	1449	657
ST(*)(**)J 48 084	658	2491	580	2196	92	233.7	59	149.9	88	223.5	52	132.1	1539	698	1593	723
ST(*)(**)J 48 096	752	2847	675	2555	104	264.2	59	149.9	100	254.0	52	132.1	1653	750	1750	794
ST(*)(**)J 48 108	846	3202	765	2896	116	294.6	59	149.9	112	284.5	52	132.1	1803	818	1925	873
ST(*)(**)J 48 116	909	3436	836	3160	124	315.0	59	149.9	120	304.8	52	132.1	CALL	CALL	CALL	CALL
ST(*)(**)J 48 120	940	3558	860	3255	128	325.1	59	149.9	124	315.0	52	132.1	1947	883	2069	938
ST(*)(**)J 48 141	1128	4270	1040	3937	149	378.5	59	149.9	145	368.3	52	132.1	2216	1005	2407	1092
ST(*)(**)J 54 099	981	3713	875	3312	107	271.8	65	165.1	103	261.6	58	147.3	2200	998	2275	1032
ST(*)(**)J 54 113	1119	4236	1000	3785	121	307.3	65	165.1	117	297.2	58	147.3	2400	1089	2475	1123
ST(*)(**)J 54 123	1219	4614	1110	4202	129	327.7	65	165.1	127	322.6	58	147.3	2575	1168	2650	1202
ST(*)(**)J 54 134	1545	5849	1442	5459	162	411.5	63	160.0	156	396.2	54	137.2	CALL	CALL	2364	1073
ST(*)(**)J 60 096	1174	4444	1000	3785	104	264.2	71	180.3	100	254.0	64	162.6	2600	1179	2675	1213
ST(*)(**)J 60 114	1395	5281	1245	4713	122	309.9	71	180.3	118	299.7	64	162.6	3050	1383	3125	1417
ST(*)(**)J 60 128	1565	5925	1430	5414	136	345.4	71	180.3	132	335.3	64	162.6	3175	1441	CALL	CALL
ST(*)(**)J 60 138	1689	6394	1530	5792	146	370.8	71	180.3	142	360.7	64	162.6	3500	1586	3575	1622
ST(*)(**)J 72 094	1655	6266	1433	5425	102	259.1	83	210.8	98	248.9	76	193.0	CALL	CALL	CALL	CALL
ST(*)(**)J 72 100	1761	6667	1538	5823	108	274.3	83	210.8	104	264.2	76	193.0	CALL	CALL	CALL	CALL
ST(*)(**)J 72 117	2061	7803	1800	6815	125	317.5	83	210.8	121	307.3	76	193.0	CALL	CALL	CALL	CALL
ST(*)(**)J 72 120	2115	8007	1865	7061	128	325.1	83	210.8	124	315.0	76	193.0	CALL	CALL	CALL	CALL
ST(*)(**)J 72 128	2256	8541	2000	7572	136	345.4	83	210.8	132	335.3	76	193.0	CALL	CALL	CALL	CALL

* V=Vertical, H=Horizontal

** G=Glass-lined carbon steel, E=Epoxy-lined carbon steel, D=Double-glass-lined carbon steel, N=Carbon steel with no lining

2=Duplex stainless steel, 3=316L stainless steel

Example: STVGJ36102

*** Nominal gallon capacity is listed for comparison purposes. It refers to a hypothetical measurement for a tank with a flat head and flat base.

A tank is actually built with an elliptical head and base, so Laars includes this actual capacity in addition to the hypothetical nominal capacity.

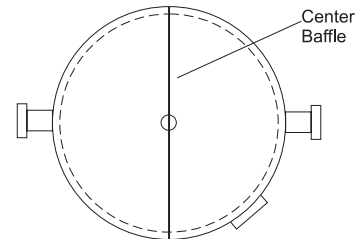
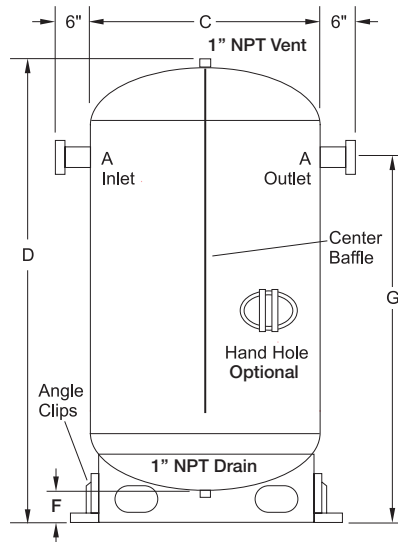
INSULATED & TOPCOATED STORAGE TANKS – MODEL ST

SPECIFICATIONS

Model Number	Capacity***				Height				Length		Tank		Weight			
	Nominal		Actual		Vertical Tanks		Horizontal Tanks		Horizontal Tanks		Diameter		Vertical Tanks		Horizontal Tanks	
	gal	L	gal	L	in	cm	in	cm	in	cm	in	cm	lbs	kg	lbs	kg
ST(*)(**) I 30 063	193	731	175	662	69.25	175.9	41.25	104.8	67.5	171.5	34.5	87.6	340	154	365	166
ST(*)(**) I 30 075	229	867	210	795	81.25	206.4	41.25	104.8	79.5	201.9	34.5	87.6	387	176	412	187
ST(*)(**) I 30 085	260	984	240	908	91.25	231.8	41.25	104.8	89.5	227.3	34.5	87.6	420	191	545	247
ST(*)(**) I 30 099	303	1147	280	1060	105.25	267.3	41.25	104.8	103.5	262.9	34.5	87.6	483	219	508	230
ST(*)(**) I 30 111	340	1287	320	1211	117.25	297.8	41.25	104.8	115.5	293.4	34.5	87.6	530	240	555	252
ST(*)(**) I 36 072	318	1204	285	1079	78.25	198.8	47.25	120.0	76.5	194.3	40.5	102.9	550	249	576	261
ST(*)(**) I 36 078	344	1302	310	1173	84.25	214.0	47.25	120.0	82.5	209.6	40.5	102.9	588	267	614	279
ST(*)(**) I 36 085	375	1420	340	1287	91.25	231.8	47.25	120.0	89.5	227.3	40.5	102.9	633	287	659	299
ST(*)(**) I 36 090	397	1503	360	1363	96.25	244.5	47.25	120.0	94.5	240.0	40.5	102.9	664	301	690	313
ST(*)(**) I 36 102	449	1700	415	1571	108.25	275.0	47.25	120.0	106.5	270.5	40.5	102.9	742	337	768	348
ST(*)(**) I 36 114	502	1900	465	1760	120.25	305.4	47.25	120.0	118.5	301.0	40.5	102.9	818	371	844	383
ST(*)(**) I 36 126	555	2101	515	1949	132.25	335.9	47.25	120.0	130.5	331.5	40.5	102.9	894	406	920	417
ST(*)(**) I 42 081	486	1840	435	1647	87.25	221.6	53.25	135.3	85.5	217.2	46.5	118.1	783	355	810	367
ST(*)(**) I 42 084	504	1908	453	1715	90.25	229.2	53.25	135.3	88.5	224.8	46.5	118.1	805	365	832	377
ST(*)(**) I 42 093	558	2112	505	1912	99.25	252.1	53.25	135.3	97.5	247.7	46.5	118.1	874	396	874	397
ST(*)(**) I 42 105	630	2385	575	2177	111.25	282.6	53.25	135.3	109.5	278.1	46.5	118.1	963	437	900	409
ST(*)(**) I 42 117	702	2657	645	2442	123.25	313.1	53.25	135.3	121.5	308.6	46.5	118.1	1052	477	984	447
ST(*)(**) I 42 129	774	2930	720	2725	135.25	343.5	53.25	135.3	133.5	339.1	46.5	118.1	1140	517	1068	485
ST(*)(**) I 42 139	834	3157	776	2937	145.25	368.9	53.25	135.3	143.5	364.5	46.5	118.1	1217	552	1138	517
ST(*)(**) I 48 073	572	2165	500	1893	79.25	201.3	59.25	150.5	77.5	196.9	52.5	133.4	1038	474	1090	494
ST(*)(**) I 48 084	658	2491	580	2196	90.25	229.2	59.25	150.5	88.5	224.8	52.5	133.4	1161	528	1213	551
ST(*)(**) I 48 096	752	2847	675	2555	102.25	259.7	59.25	150.5	100.5	255.3	52.5	133.4	1298	589	1350	612
ST(*)(**) I 48 108	846	3202	765	2896	114.25	290.2	59.25	150.5	112.5	285.8	52.5	133.4	1433	650	1485	674
ST(*)(**) B 48 116	909	3436	836	3160	122.25	310.5	59.25	150.5	120.5	306.1	52.5	133.4	1522	691	CALL	CALL
ST(*)(**) I 48 120	940	3558	860	3255	126.25	320.7	59.25	150.5	124.5	316.2	52.5	133.4	1567	711	1619	734
ST(*)(**) I 48 141	1128	4270	1040	3937	147.25	374.0	59.25	150.5	145.5	369.6	52.5	133.4	1805	819	1857	842
ST(*)(**) I 48 168	1306	4944	1225	4637	174.25	442.6	59.25	150.5	172.5	438.2	52.5	133.4	2186	992	2160	981
ST(*)(**) I 54 099	981	3713	875	3312	107.25	272.4	65.25	165.7	103.5	262.9	58.5	148.6	1596	724	1696	769
ST(*)(**) I 54 123	1219	4614	1110	4202	131.25	333.4	65.25	165.7	127.5	323.9	58.5	148.6	1889	857	2124	963
ST(*)(**) I 54 147	1457	5515	1340	5072	155.25	394.3	65.25	165.7	151.5	384.8	58.5	148.6	2182	990	2306	1046
ST(*)(**) B 54 156	1545	5849	1442	5459	164.25	417.2	65.25	165.7	160.5	407.7	58.5	148.6	CALL	CALL	2419	1098
ST(*)(**) B 54 160	1585	6001	1481	5607	166.00	422.0	63.00	160.0	160.0	406.0	54.0	137.2	2402	1091	CALL	CALL
ST(*)(**) I 54 165	1635	6189	1500	5678	173.25	440.1	65.25	165.7	169.5	430.5	58.5	148.6	2484	1127	2734	1240
ST(*)(**) I 54 183	1814	6867	1690	6397	191.25	485.8	65.25	165.7	187.5	476.3	58.5	148.6	2722	1235	2972	1348
ST(*)(**) I 60 096	1174	4444	1000	3785	104.25	264.8	71.25	181.0	100.5	255.3	64.5	163.8	2007	910	2548	925
ST(*)(**) I 60 114	1395	5281	1245	4713	122.25	310.5	71.25	181.0	118.5	301.0	64.5	163.8	2376	1078	2648	1201
ST(*)(**) B 60 128	1565	5925	1430	5414	136.25	346.1	71.25	181.0	132.5	336.6	64.5	163.8	CALL	CALL	2736	1242
ST(*)(**) I 60 138	1689	6394	1530	5792	146.25	371.5	71.25	181.0	142.5	362.0	64.5	163.8	2797	1269	2829	1283
ST(*)(**) I 60 177	2165	8195	2000	7571	185.25	470.5	71.25	181.0	181.5	461.0	64.5	163.8	3481	1579	3491	1585
ST(*)(**) I 60 186	2276	8616	2105	7968	194.25	493.4	71.25	181.0	190.5	483.9	64.5	163.8	3639	1651	3989	1809
ST(*)(**) I 60 210	2570	9729	2395	9066	218.25	554.4	71.25	181.0	214.5	544.8	64.5	163.8	3922	1779	4172	1892
ST(*)(**) B 72 094	1655	6266	1433	5425	112.25	285.1	83.25	211.5	98.5	250.2	76.5	194.3	2551	1158	CALL	CALL
ST(*)(**) I 72 100	1761	6666	1538	5822	108.25	275.0	83.25	211.5	104.5	265.4	76.5	194.3	2677	1214	2942	1334
ST(*)(**) I 72 117	2061	7802	1800	6814	125.25	318.1	83.25	211.5	121.5	308.6	76.5	194.3	3035	1377	3305	1499
ST(*)(**) I 72 120	2115	8006	1865	7060	128.25	325.8	83.25	211.5	124.5	316.2	76.5	194.3	3099	1406	3369	1528
ST(*)(**) I 72 128	2256	8540	2000	7571	136.25	346.1	83.25	211.5	132.5	336.6	76.5	194.3	3267	1482	3540	1606
ST(*)(**) I 72 144	2538	9607	2285	8650	152.25	386.7	83.25	211.5	148.5	377.2	76.5	194.3	3304	1499	3881	1760
ST(*)(**) I 72 157	2765	10467	2500	9464	165.25	419.7	83.25	211.5	161.5	410.2	76.5	194.3	3878	1759	4105	1862
ST(*)(**) I 72 168	2959	11201	2727	10323	176.25	447.7	83.25	211.5	172.5	438.2	76.5	194.3	4110	1864	4394	1993
ST(*)(**) I 72 192	3382	12802	3147	11913	200.25	508.6	83.25	211.5	196.5	499.1	76.5	194.3	4616	2094	4852	2205
ST(*)(**) I 72 216	3805	14403	3567	13503	224.25	569.6	83.25	211.5	220.5	560.1	76.5	194.3	5122	2323	5418	2458
ST(*)(**) I 72 250	4404	16671	4162	15755	258.25	656.0	83.25	211.5	254.5	646.4	76.5	194.3	5616	2547	6144	2787
ST(*)(**) I 84 121	2901	10981	2500	9464	129.25	328.3	95.25	241.9	125.5	318.8	88.5	224.8	4265	1935	4684	2125
ST(*)(**) I 84 138	3308	12522	2915	11034	146.25	371.5	95.25	241.9	142.5	362.0	88.5	224.8	4747	2153	5196	2356
ST(*)(**) I 84 162	3884	14703	3480	13173	170.25	432.4	95.25	241.9	166.5	422.9	88.5	224.8	5428	2462	5902	2677
ST(*)(**) I 84 186	4459	16879	4045	15312	194.25	493.4	95.25	241.9	190.5	483.9	88.5	224.8	6109	2771	6614	3000
ST(*)(**) I 84 210	5038	19071	4610	17451	218.25	554.4	95.25	241.9	214.5	544.8	88.5	224.8	6789	3079	7327	3323
ST(*)(**) I 84 256	6138	23235	5695	21558	264.25	671.2	95.25	241.9	260.5	661.7	88.5	224.8	8094	3671	8693	3943

* V=Vertical, H=Horizontal
** G=Glass-lined carbon steel, E=Epoxy-lined carbon steel, D=Double-glass-lined carbon steel, N=Carbon steel with no lining
2=Duplex stainless steel, 3=316L stainless steel
Example: STVGJ36102
*** Nominal gallon capacity is listed for comparison purposes. It refers to a hypothetical measurement for a tank with a flat head and flat base. A tank is actually built with an elliptical head and base, so Laars includes this actual capacity in addition to the hypothetical nominal capacity.

CHILLED WATER BUFFER TANKS – MODEL BT



SPECIFICATIONS

Model Number	Capacity		A Inlet / Outlet	D Floor to Top of Heater		C Diameter		G Water Connection Height		F Skirt Height		Approximate Weight	
	gal	L		in.	cm.	in.	cm	in.	cm.	in.	cm.	lbs.	kg.
BTV** 24 072 XASXXX	130	491	2" NPT	76	193	24	61	63.63	162	4	10.2	375	170
BTV** 30 075 XFSXXX	210	794	3" flange	79	201	30	76	63.38	161	4	10.2	425	193
BTV** 36 072 XFSXXX	300	1134	4" flange	76	193	36	91	59.75	152	4	10.2	633	287
BTV** 36 090 XFSXXX	400	1512	4" flange	94	239	36	91	77.75	197	4	10.2	715	325
BTV** 42 072 XFSXXX	394	1489	4" flange	76	193	42	107	58.25	148	4	10.2	1250	568
BTV** 42 084 XFSXXX	460	1739	4" flange	88	224	42	107	70.25	178	4	10.2	1250	568
BTV** 42 090 XFSXXX	500	1890	4" flange	94	239	42	107	76.25	194	4	10.2	1300	590
BTV** 42 100 XFSXXX	550	2079	4" flange	104	264	42	107	85.00	216	4	10.2	1425	647
BTV** 48 073 XFSXXX	528	1996	6" flange	77	196	48	122	56.25	143	4	10.2	1150	522
BTV** 48 084 XFSXXX	588	2223	6" flange	88	224	48	122	64.50	164	4	10.2	1425	647
BTV** 48 096 XFSXXX	700	2646	6" flange	100	254	48	122	79.25	201	4	10.2	1885	856
BTV** 48 141 XFSXXX	1000	3780	6" flange	145	368	48	122	124.25	316	4	10.2	1957	888
BTV** 54 096 XFSXXX	850	3213	6" flange	102	259	54	137	79.63	202	6	15.2	1630	740
BTV** 54 147 XFSXXX	1350	5103	6" flange	153	389	54	137	132.00	335	6	15.2	2800	1271
BTV** 54 165 XFSXXX	1530	5783	8" flange	171	434	54	137	147.50	375	6	15.2	3100	1407
BTV** 60 096 XFSXXX	1040	3931	8" flange	102	259	60	152	76.75	195	6	15.2	2280	1035
BTV** 60 135 XFSXXX	1500	5670	8" flange	141	358	60	152	114.00	290	6	15.2	3375	1532
BTV** 60 177 XFSXXX	2000	7560	8" flange	183	465	60	152	155.00	394	6	15.2	4225	1918

**GB=Glass-lined carbon steel, EB=Epoxy-lined carbon steel, DB=Double-glass-lined carbon steel, NB=Carbon steel, 2B=Duplex stainless steel, 3B=316L stainless steel

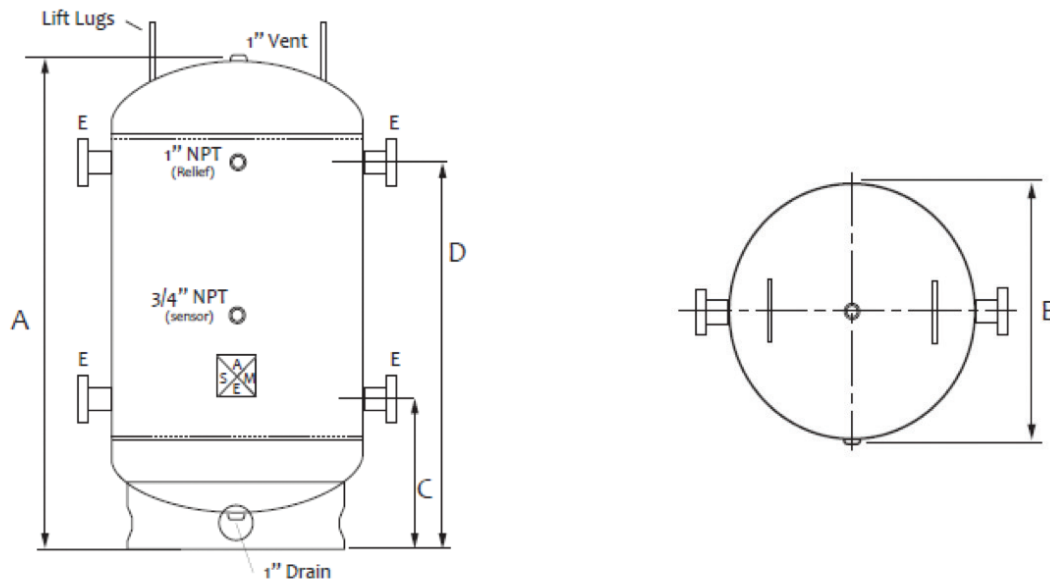
**GI=Glass-lined carbon steel, EI=Epoxy-lined carbon steel, DI=Double-glass-lined carbon steel, NI=Carbon steel, 2I=Duplex stainless steel, 3I=316L stainless steel

LAARS® CHILLED WATER BUFFER TANKS

Laars® Chilled Water Buffer Tanks are designed to increase water volume capacity, in relation to the chiller capacity. Low water volume systems may require additional buffer capacity to eliminate excessive chiller cycling, poor temperature control or erratic system operation. These tanks increase the capacity of a chilled water system and help stabilize the return water temperature. This results in fewer cycles of the compressor and better temperature control. Between three and ten gallons of total capacity in the system per nominal ton is recommended, depending on the accuracy of temperature control required. Five gallons per nominal ton is recommended for a typical air conditioning system.

- All tanks are constructed and certified in accordance with ASME section VIII, Div. I code
- Available in carbon steel, duplex stainless steel, and 316L stainless steel
- Bare or with R-16 foam insulation with topcoat
- Red oxide primer exterior on bare carbon steel tanks
- Can be ordered in vertical or horizontal orientation
- Custom sizes available upon request

HYDRAULIC SEPARATORS / HOT WATER BUFFER TANKS – MODEL HT



HT models are hydraulic separators and buffer tanks in one. The HT is piped to hydraulically separate boiler water flow from building water flow, allowing independent circulation. They are designed to use stored boiler water to buffer the system load when the boiler is producing more BTU's than what the building can handle. Standard units are bare carbon steel with red oxide primer. Stainless steel options, insulated foam & topcoat, insulated steel jacket, and optional fittings are available if customization is needed.

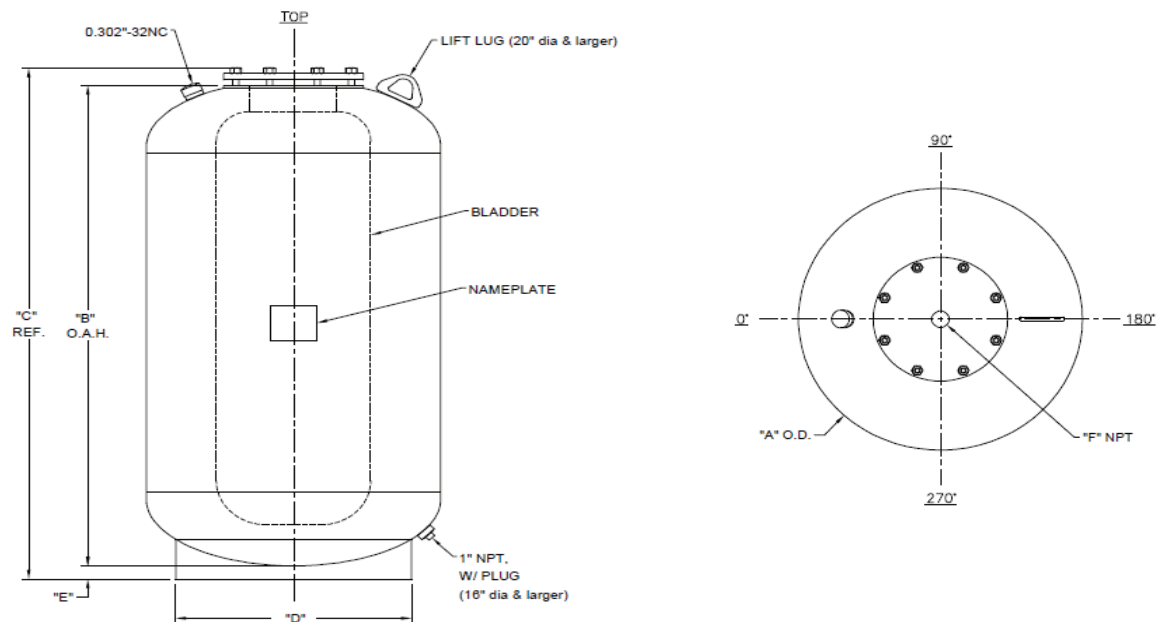
SPECIFICATIONS

Model Number	Capacity		A Height		B Diameter		C Height to Bottom Connection		D Height to Top Connection		E Water Fitting	Weight	
	gal	L	in.	cm.	in.	cm.	in.	cm.	in.	cm.	Size/Style	lbs.	kg.
HTV**-18-041	40	151	45	114	18	46	14 ¼	36	33 ¾	86	3" NPT	185	84
HTV**-24-045	80	303	49	125	24	61	16 ¾	43	36 ¼	92	3" NPT	310	141
HTV**-30-045	120	454	49	125	30	76	16 ¾	43	36 ¼	92	3" NPT	310	141
HTV**-30-075	210	795	79	201	30	76	16 ¾	43	62 ¼	158	3" NPT	500	227
HTV**-36-072	285	1079	76	193	36	91	24 ½	62	55 ½	141	4" flange	760	345
HTV**-42-072	385	1457	76	193	42	107	27	69	53	135	6" flange	1000	454
HTV**-42-084	453	795	88	201	42	107	27	69	64	163	6" flange	1022	464
HTV**-48-096	675	2555	100	254	48	122	29	74	75	191	6" flange	1850	840
HTV**-48-120	860	3255	124	315	48	122	29	74	99	251	6" flange	1925	874
HTV**-60-096	1000	3786	100	254	60	152	31 ¼	79.4	76 ¾	195	6" flange	2400	1090

** Fourth character is N for carbon steel, 2 for duplex stainless steel, or 3 for 316L stainless steel

** Fifth character is B for bare tank, I for tank with insulating foam and topcoat, or J for a tank with an insulated steel jacket

EXPANSION BLADDER TANKS – MODEL LEBT

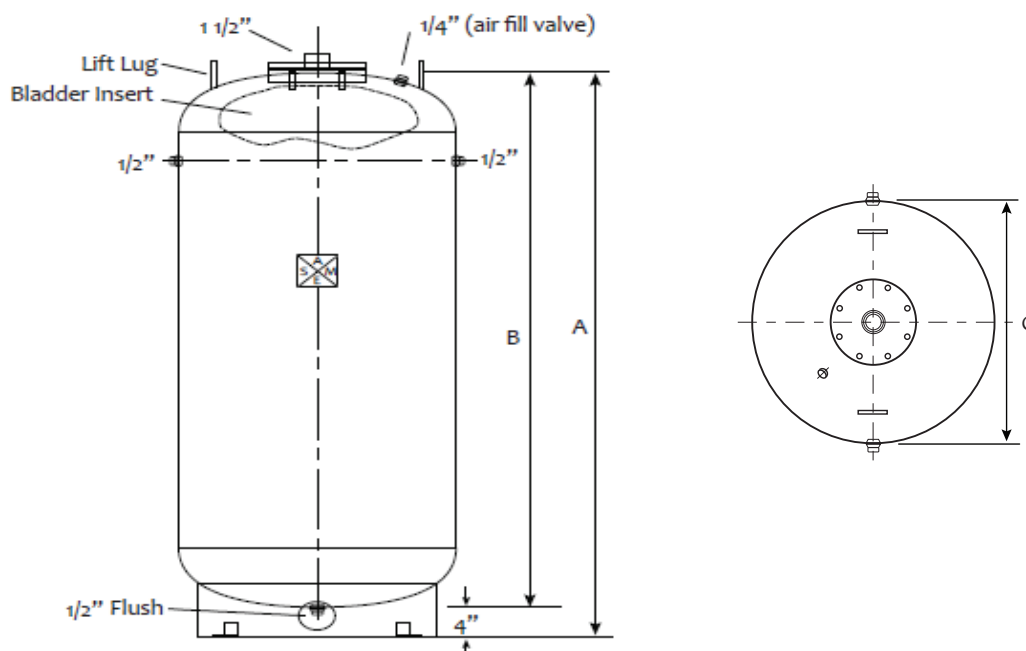


SPECIFICATIONS

Model Number	Capacity		A Diameter		B Tank Height		C (ref) Overall Height		D Base Ring Diameter		E Base Ring Height		F Top Tapping	Weight	
	gal	L	in.	cm.	in.	cm.	in.	cm.	in.	cm.	in.	cm.	NPT	lbs.	kg.
LEBT-12-027	11	42	12 3/4	32	24.19	61	26.63	68	10	25	1.0	25	3/4	42	19
LEBT-14-026	15	57	14	36	26.00	66	28.25	72	10	25	0.8	20	3/4	52	24
LEBT-16-032	25	95	16	41	29.13	74	32.50	83	11	28	1.5	38	1	77	35
LEBT-16-048	39	148	16	41	45.44	115	48.81	124	11	28	1.5	38	1	115	52
LEBT-20-048	58	220	20	51	48.13	122	51.50	131	16	41	1.5	38	1 1/2	170	77
LEBT-24-050	85	322	24	61	47.75	121	51.13	130	20	51	1.5	38	1 1/2	225	102
LEBT-24-057	104	394	24	61	54.13	137	57.63	146	20	51	1.5	38	1 1/2	250	114
LEBT-30-053	147	557	30	76	52.38	133	55.88	142	24	61	1.5	38	1 1/2	325	148
LEBT-30-058	158	598	30	76	54.88	139	58.38	148	24	61	1.5	38	1 1/2	350	159



EXPANSION BLADDER TANKS – MODEL LEBT



Expansion Bladder Tanks are used to help eliminate the expansion forces caused by heating and cooling of pressurized water systems. A heavy duty bladder keeps the system water separate from the tank, eliminating tank corrosion. The expansion tanks are designed for commercial heating applications and potable water applications. Carbon steel and stainless steel tanks are available, and can be manufactured with insulating foam and topcoat.

SPECIFICATIONS

Model Number	Capacity		A Overall Height		B Tank Height		C Tank Diameter		Weight	
	gal.	L	in.	cm.	in.	cm.	in.	cm	lbs.	kg.
LEBT-30-063*	175	662	67	170	63	160	30	76	340	154
LEBT-30-075*	210	794	79	201	75	191	30	76	387	176
LEBT-30-085*	240	907	89	226	85	216	30	76	520	236
LEBT-36-072*	285	1077	76	193	72	183	36	91	550	250
LEBT-36-078*	310	1172	82	208	78	198	36	91	588	267
LEBT-36-085*	340	1285	89	226	85	216	36	91	633	287
LEBT-36-090*	360	1361	94	239	90	229	36	91	664	301
LEBT-42-081*	435	1644	85	216	81	206	42	107	873	396
LEBT-42-084*	455	1712	88	224	84	213	42	107	905	411
LEBT-42-093*	505	1909	97	246	93	236	42	107	974	442
LEBT-48-073*	500	1890	77	196	73	185	48	122	1038	471
LEBT-48-096*	675	2552	100	254	96	244	48	122	1298	589
LEBT-48-108*	765	2892	112	284	108	274	48	122	1433	651
LEBT-48-120*	860	3251	124	315	120	305	48	122	1567	711
LEBT-48-141*	1040	3931	145	368	141	358	48	122	2053	932

* Additional characters indicate materials and construction options.

LAARS CUSTOM TANKS AND COMPONENTS

CUSTOM AND SPECIAL TANKS

Many vessels are unique to specific applications. Laars will build custom tanks for a host of other applications, such as aerospace, chemical, compressor, laboratory, petrochemical, pharmaceutical, refrigeration and steam. Types of tanks may include air eliminator tanks, boiler blow-off tanks, chemical mixers, reactors, process tanks, surge tanks, and storage vessels. Carbon steel with glass, double glass, and epoxy linings, or stainless steel tanks are available. Provide the details of the job, and we'll prepare the quote.

TANK OPTIONS AND COMPONENTS

A variety of options are available with tanks, to further customize for your job.

- Air Eliminator Tanks
- Boiler Blow-Off Tanks
- Chemical Mixers, Reactors, Process Tanks and Storage Vessels
- Surge Tanks

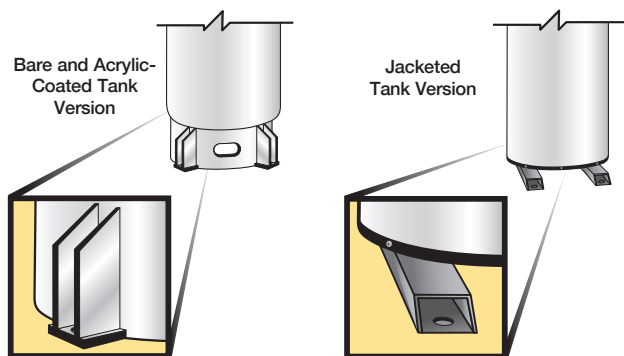
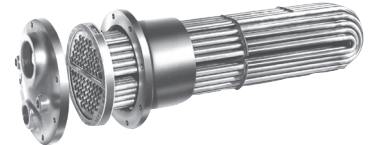


POWERED ANODE

Protect your tank investment with the Laars powered anode system for large volume tanks. The powered anode system monitors the electrical potential of the tank surfaces and supplies identical electrical potential to the anode rod(s). Because there is no difference in electrical potential, corrosion of the tank is prevented and the anodes are not consumed. The titanium anode is non-consumable so it does not need to be replaced, ever!

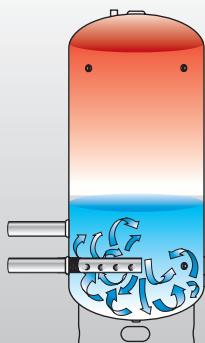
HOT WATER GENERATORS

Install the Laars model XT Tube Bundle Heat Exchangers into your large volume storage tanks and use in conjunction with your boiler to generate large amounts of stored hot water. Laars tube bundles can be customized to match your hot water generation needs.



SEISMIC BRACKETS

Laars offers two styles of seismic securing brackets for jacketed and unjacketed/acrylic-coated storage tanks. These heavy-duty, welded brackets can be bolted to the floor and are standard equipment on all Laars custom storage tanks.



LAARS-JET® WATER INLET TUBE

This patented, stainless steel device directs the flow of incoming water to the bottom of the storage tank forcing existing hot water upwards toward the hot water outlet. The LAARS-Jet® inlet tube minimizes turbulence and therefore preserves desirable thermal stratification inside the storage tank. The result is an efficient and automatic migration of usable hot water whenever there is a draw from the storage tank. The LAARS-Jet® inlet tube is available as an option, 3" NPTS only. Please specify when ordering.





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