



LAARS® Hot Water Custom Storage Tanks with Sprayed-on Rigid Polyurethane Foam (SPF) with Acrylic Top-Coat

- Laars Heating Systems Tanks sprayed-on rigid insulation with acrylic topcoat exceeds ASHREE 90.1 requirements with 2.25" of high-density polyurethane foam with an "R" value of R-16. SPF meets requirements for California Title 24. Laars spray foam insulation has the best fire spread rating with a class I foam with less than a 25-flame spread rating suitable for boiler room applications.
- The 100% acrylic topcoat is formulated for applications over spray polyurethane foam and is designed to withstand extreme weather and a full range of environmental conditions.
- The 2-component polyurethane foam is applied at ambient temperatures, directly to the vessel in the desired thickness. The 2-coat topcoat is then applied from a high-pressure spray gun and allowed to dry between applications.
- Alternative for insulated and steel jacket.
- Any tank size or shape can be insulated.
- Field repairable.

SPRAY POLYURETHANE FOAM:

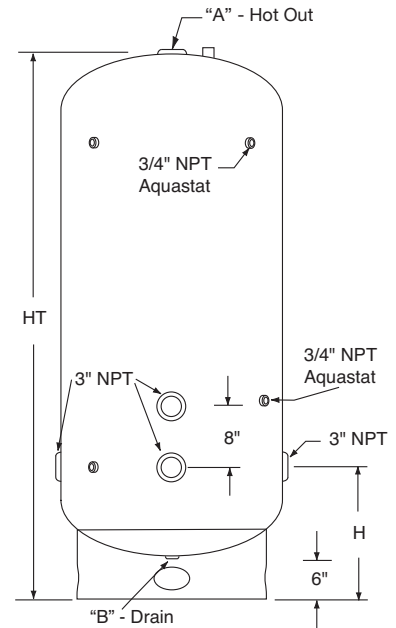
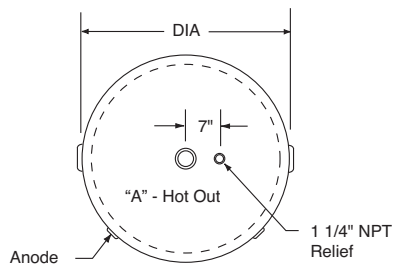
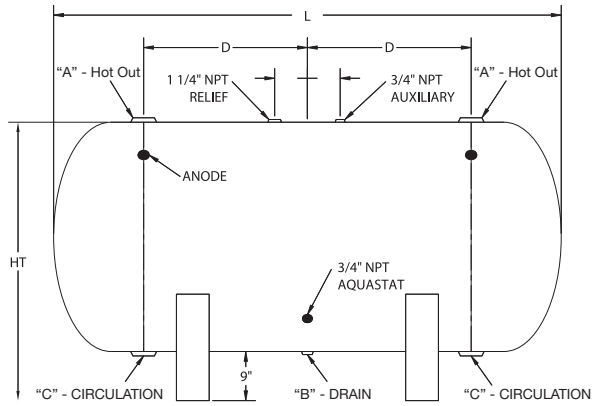
Specific Gravity:	1.17 – 1.19
Viscosity:	800 – 1300
Density:	@ 2" 2.10 – 2.35 @ 4" 1.88 – 1.99
Closed Cell Content:	>90%
K-Factor, Initial:	0.155 – 0.170
Permeance:	2.91 (perms) 2.99 (perm inch)
Dimensional Stability:	+3.3 to +8.2 - Dry Age 28 days (158°F, Dry) -0.37 to -0.96 - Freeze 14 day (-20°F)
Flame Spread:	25 - ASTM E-84
Smoke Development:	450
R Value:	7.2/ inch
Max. Thickness:	4"

ACRYLIC COATING:

Topcoat:	Coated white
Texture:	Smooth
Grade:	Spray or Roll
Base:	100% Acrylic
Solids by Weight:	66% (± 3)
Solids by Volume:	55% (± 3)
Weight per Gallon:	11.65 (± .2)
Tensile Strength:	300 psi (± 25)
Elongation:	260% (± 25)
Durometer Hardness:	62 Shore A (± 2)
Tear Resistance:	85 lbs/ in
Permeance:	11 U.S. Perms @ 20 mil
Viscosity:	110 K.U. (± 8)
Codes/ Approvals:	Energy Star, ICC, UL, ASTM D6083
Reflectivity:	New 85%, Aged 78%
Emmissivity:	.89



Hot Water Storage Tanks with Sprayed-on Rigid Polyurethane Foam



Specifications

Model Number	Capacity				Dimensions													Tappings			Shipping Weight	
	Nominal*		Actual		Diameter		Vert. Height		Hori. Height		H		L		D		A	B	C	@125#		
	Gal.	L	Gal.	L	Gal.	L	in.	cm	in.	cm	in.	cm	in.	cm	in.	cm	in.	in.	in.	lbs.	kg	
CTV GI 30-085	260	984	240	909	30	76	91	231	39	99	19.5	50	85	216	33.5	85	2½	1	3	763	346	
CTV GI 36-078	344	1302	310	1173	36	91	84	213	45	114	21	53	78	198	30	76	2½	1	3	914	415	
CTV GI 36-085	375	1420	340	1287	36	91	91	231	45	114	21	53	85	216	33.5	85	2½	1	3	908	412	
CTV GI 42-085	510	1931	460	1741	42	107	91	231	51	130	22.5	57	85	216	33.5	85	3	1	3	1164	528	
CTV GI 48-073	572	2165	500	1893	48	122	79	201	57	145	24	61	73	185	27.5	70	3	1	3	1166	529	
CTV GI 48-108	846	3202	765	2896	48	122	114	290	57	145	24	61	108	274	45	114	3	1	3	1806	819	
CTV GI 48-141	1128	4270	1040	3937	48	122	147	373	57	145	24	61	141	358	63	160	3	1	3	2250	1021	

Note: Dimensions are for steel tank only. Application of coating will increase dimensions approximately as follows:

Vertical Ht.	2.25"	(57mm)	Horizontal Ht.	2.25"	(57mm)
Horizontal L.	4.5"	(114mm)	Vertical Dia.	4.5"	(114mm)

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 7,063,133 B2; 5,954,492; 5,761,379; 5,943,984; 5,081,696; 5,988,117; 6,142,216; 5,199,385; 5,574,822; 5,372,185; 5,485,879; 5,277,171; (B1)5,341,770; 5,660,165; 5,596,952; 5,682,666; 4,904,428; 5,023,031; 5,000,893; 4,669,448; 4,829,983; 4,808,356; 5,115,767; 5,092,519; 5,052,346; 4,416,222; 4,628,184; 4,861,968; 4,672,919; Re. 34,534. **OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING.** **CURRENT CANADIAN PATENTS:** 1,272,914; 1,280,043; 1,289,832; 2,045,862; 2,112,515; 2,108,186; 2,107,012; 2,092,105.