## SPP Bare Steel Large Volume Solar Tanks





Larger selection – ranging from 193gl to 6,000+ gl

Double Glass Lining Available

Top-Coat Insulation Available

Designed for High Temperature (180F) Storage

ASME Certified

The SPP bare steel large volume solar water tanks are designed for large commercial, industrial, high temperature or long term storage of hot water.

These large solar tanks are perfect for solar DHW, space heating, and solar air conditioning applications.

I ASME

5-Year Limited Warranties / 10-Year Limited Warranties on Double Glass Lined Tanks

ASME Rated - All size tanks are constructed and certified in accordance with ASME IV for 125 PSI.

Red Oxide Primer - All tanks come with red oxide primer applied for long lasting durability.

Top Coat & Finish Coat Available - Optional top coat insulation provides an R-16 insulation value. Finish coats are also available for all size tanks.

High Quality Lining - Tanks are equipped with a single layer glass lining that is specifically formulated for hot water applications, designed to minimize the effects of high-temperature hot water.

Double Glass Lining Option - Double glass lining option gives tanks added protection against failure, and extends the warranty from 5 years to 10 years. Built upon request.

Warrantied - 5 year warranty protection against tank failure resulting from defects in materials and workmanship, 10 year warranty on tanks with double glass lining.

## SPP Bare Steel Large Volume Solar Tanks: Specifications

A	В	С	D	E	F	G	Н	Ι	J	К	L	М	Ν
SPP-S30-063	193	175	67"	39"	63"	18"	4"	17.5"	30"	2.5"	1"	3"	340
SPP-S30-075	229	210	79	39	75	24	4	17.5	30	2.5	1	3	387
SPP-S30-085	260	240	89	39	85	29	4	17.5	30	2.5	1	3	520
SPP-S30-099	303	280	103	39	99	36	4	17.5	30	2.5	1	3	483
SPP-S30-111	340	320	115	39	111	42	4	17.5	30	2.5	1	3	530
SPP-S36-072	318	285	76	45	72	21	4	19	36	2.5	1	3	550
SPP-S36-078	344	310	82	45	78	24	4	19	36	2.5	1	3	588
SPP-S36-085	375	340	89	45	85	27.5	4	19	36	2.5	1	3	633
SPP-S36-090	397	360	94	45	90	30	4	19	36	2.5	1	3	664
SPP-S36-102	449	415	106	45	102	36	4	19	36	2.5	1	3	742
SPP-S36-114	502	465	118	45	114	42	4	19	36	2.5	1	3	818
SPP-S36-126	555	515	130	45	126	48	4	19	36	2.5	1	3	895
<u>CDD C42 004</u>	400	425	05	<b>F</b> 4	01	24		20.5	40	2		2	701
SPP-S42-081	486	435	85	51	81	24	4	20.5	42	3	1	3	783
SPP-S42-084	504	453	88	51	84	25.5	4	20.5	42	3	1	3	805
SPP-S42-093	558	505	97	51	93	30	4	20.5	42	3	1	3	874
SPP-S42-105	630	575	109	51	105	36	4	20.5	42	3	1	3	963
SPP-S42-117	702	645	121	51	117	42	4	20.5	42	3	1	3	105
SPP-S42-129	774	720	133	51	129	48	4	20.5	42	3	1	3	114
SPP-S42-139	846	790	143	51	139	53	4	20.5	42	3	1	3	121
SPP-S48-073	572	500	77	57	73	18.5	4	22	48	3	1	3	103
SPP-S48-073	658	580	88	57	84	24	4	22	48	3	1	3	116
SPP-S48-084 SPP-S48-096	752	675	100	57	96	30	4	22	48	3	1	3	129
SPP-S48-108	846	765	100	57	108	36	4	22	48	3	1	3	143
SPP-S48-108	940	840	112	57	108	42	4	22	48	3	1	3	143
SPP-S48-141	1128	1040	145	57	120	52.5	4	22	48	3	1	3	130
	1120	1010	115	57	1.11	52.5			10	3	- 1		100
SPP-S54-099	981	875	105	63	99	37.5	6	25.5	54	3	1.5	3	159
			129	63	123	49.5	6	25.5	54	3	1.5	3	188
SPP-S54-123	1219	1110	125		4 4 7	61.5	C	25.5	54	3	1.5	3	218
SPP-S54-123 SPP-S54-147	1219 1457	1110 1340	153	63	147	01.5	6	25.5					
	-	-	-	63 63	147 183	79.5	6	25.5	54	3	1.5	3	262
SPP-S54-147	1457	1340	153						54	3			262
SPP-S54-147 SPP-S54-183	1457	1340	153						54 60	3			
SPP-S54-147 SPP-S54-183 SPP-S60-114	1457 1814	1340 1690	153 189	63	183	79.5	6	25.5	-		1.5	3	229
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138	1457 1814 1395	1340 1690 1245	153 189 120	63 69	183 114	79.5 45	6 6	25.5 27	60	3	1.5 1.5	3	229 270
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138 SPP-S60-168	1457 1814 1395 1689	1340 1690 1245 1530	153 189 120 144	63 69 69	183 114 138	79.5 45 57	6 6 6	25.5 27 27	60 60	3 3	1.5 1.5 1.5	3 3 3	229 270 311
SPP-S54-147	1457 1814 1395 1689 1983	1340 1690 1245 1530 1820	153 189 120 144 168	63 69 69 69	183 114 138 168	79.5 45 57 69	6 6 6 6	25.5 27 27 27 27	60 60 60	3 3 3	1.5 1.5 1.5 1.5	3 3 3 3	262 229 270 311 351 392
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138 SPP-S60-168 SPP-S60-186	1457 1814 1395 1689 1983 2276	1340 1690 1245 1530 1820 2105	153 189 120 144 168 192	63 69 69 69 69	183 114 138 168 186	79.5 45 57 69 81	6 6 6 6 6	25.5 27 27 27 27 27 27	60 60 60 60	3 3 3 3	1.5 1.5 1.5 1.5 1.5	3 3 3 3 3 3	229 270 311 351
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138 SPP-S60-168 SPP-S60-186 SPP-S60-210	1457 1814 1395 1689 1983 2276	1340 1690 1245 1530 1820 2105	153 189 120 144 168 192	63 69 69 69 69	183 114 138 168 186	79.5 45 57 69 81	6 6 6 6 6	25.5 27 27 27 27 27 27	60 60 60 60	3 3 3 3	1.5 1.5 1.5 1.5 1.5	3 3 3 3 3 3	229 270 311 351 392
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138 SPP-S60-186 SPP-S60-210 SPP-S72-120	1457 1814 1395 1689 1983 2276 2570	1340 1690 1245 1530 1820 2105 2395	153 189 120 144 168 192 216	63 69 69 69 69 69	183 114 138 168 186 210	79.5 45 57 69 81 93	6 6 6 6 6 6	25.5 27 27 27 27 27 27 27	60 60 60 60 60	3 3 3 3 3	1.5 1.5 1.5 1.5 1.5 1.5	3 3 3 3 3 3 3	229 270 311 351 392 287
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138 SPP-S60-168 SPP-S60-210 SPP-S60-210 SPP-S72-120 SPP-S72-144	1457 1814 1395 1689 1983 2276 2570 2115	1340 1690 1245 1530 1820 2105 2395 1865	153 189 120 144 168 192 216 126	63 69 69 69 69 69 81	183 114 138 168 186 210 120	79.5 45 57 69 81 93 48	6 6 6 6 6 6 6	25.5 27 27 27 27 27 27 30	60 60 60 60 60 72	3 3 3 3 3 3 3 3	1.5 1.5 1.5 1.5 1.5 1.5 1.5	3 3 3 3 3 3 3 3 3 3	229 270 311 351 392 287 336
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138 SPP-S60-168 SPP-S60-210 SPP-S60-210 SPP-S72-120 SPP-S72-144 SPP-S72-168	1457 1814 1395 1689 1983 2276 2570 2115 2538	1340 1690 1245 1530 1820 2105 2395 1865 2285	153 189 120 144 168 192 216 126 150	63 69 69 69 69 69 81 81	183 114 138 168 186 210 120 144	79.5 45 57 69 81 93 48 60	6 6 6 6 6 6 6 6 6 6	25.5 27 27 27 27 27 27 30 30	60 60 60 60 60 72 72	3 3 3 3 3 3 3 3 3 3 3	1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	3 3 3 3 3 3 3 3 3 3 3 3 3	229 270 311 351 392 287 336 385
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138 SPP-S60-186 SPP-S60-210 SPP-S60-210 SPP-S72-120 SPP-S72-144 SPP-S72-168 SPP-S72-192	1457 1814 1395 1689 1983 2276 2570 2115 2538 2961	1340 1690 1245 1530 1820 2105 2395 2395 1865 2285 2700	153 189 120 144 168 192 216 126 150 174	63 69 69 69 69 69 81 81 81	183   114   138   168   186   210   120   144   168	79.5 45 57 69 81 93 48 60 72	6 6 6 6 6 6 6 6 6 6 6	25.5 27 27 27 27 27 27 27 30 30 30 30	60 60 60 60 60 72 72 72 72	3 3 3 3 3 3 3 3 3 3 3	1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	3 3 3 3 3 3 3 3 3 3 3 3 3	229 270 311 351 392 287 336 385 433
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138 SPP-S60-186 SPP-S60-210 SPP-S60-210 SPP-S72-120 SPP-S72-144 SPP-S72-168 SPP-S72-192 SPP-S72-216	1457 1814 1395 1689 1983 2276 2570 2115 2538 2961 3384	1340 1690 1245 1530 1820 2105 2395 2395 1865 2285 2700 3115	153 189 120 144 168 192 216 126 150 174 198	63 69 69 69 69 69 81 81 81 81 81	183   114   138   168   186   210   120   144   168   192	79.5 45 57 69 81 93 48 60 72 84	6 6 6 6 6 6 6 6 6 6 6 6	25.5 27 27 27 27 27 27 27 30 30 30 30 30	60 60 60 60 60 72 72 72 72 72 72	3 3 3 3 3 3 3 3 3 3 3 3 3	1.5   1.5	3 3 3 3 3 3 3 3 3 3 3 3 3 3	229 270 311 351 392 287 336 385 433 482
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138 SPP-S60-186 SPP-S60-210 SPP-S60-210 SPP-S72-120 SPP-S72-144 SPP-S72-168 SPP-S72-192 SPP-S72-216	1457 1814 1395 1689 1983 2276 2570 2115 2538 2961 3384 3807	1340 1690 1245 1530 1820 2105 2395 2395 1865 2285 2700 3115 3530	153 189 120 144 168 192 216 126 150 174 198 222	63 69 69 69 69 69 81 81 81 81 81 81	183   114   138   168   186   210   120   144   168   192   216	79.5 45 57 69 81 93 48 60 72 84 94.5	6 6 6 6 6 6 6 6 6 6 6 6 6	25.5 27 27 27 27 27 27 27 30 30 30 30 30 30	60 60 60 60 60 72 72 72 72 72 72 72 72	3 3 3 3 3 3 3 3 3 3 3 3 3 3	1.5   1.5	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	229 270 311 351 392 287 336 385 433 482
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138 SPP-S60-138 SPP-S60-186 SPP-S60-210 SPP-S72-100 SPP-S72-120 SPP-S72-144 SPP-S72-168 SPP-S72-192 SPP-S72-216 SPP-S72-250	1457 1814 1395 1689 1983 2276 2570 2115 2538 2961 3384 3807	1340 1690 1245 1530 1820 2105 2395 2395 1865 2285 2700 3115 3530	153 189 120 144 168 192 216 126 150 174 198 222	63 69 69 69 69 69 81 81 81 81 81 81	183   114   138   168   186   210   120   144   168   192   216	79.5 45 57 69 81 93 48 60 72 84 94.5	6 6 6 6 6 6 6 6 6 6 6 6 6	25.5 27 27 27 27 27 27 27 30 30 30 30 30 30	60 60 60 60 60 72 72 72 72 72 72 72 72	3 3 3 3 3 3 3 3 3 3 3 3 3 3	1.5   1.5	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	229 270 311 351
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138 SPP-S60-186 SPP-S60-210 SPP-S60-210 SPP-S72-120 SPP-S72-144 SPP-S72-168 SPP-S72-192 SPP-S72-216 SPP-S72-250 SPP-S84-138	1457 1814 1395 1689 1983 2276 2570 2115 2538 2961 3384 3807 4406	1340 1690 1245 1530 1820 2105 2395 1865 2285 2700 3115 3530 4120	153 189 120 144 168 192 216 126 150 174 198 222 256	63 69 69 69 69 81 81 81 81 81 81 81 81	183   114   138   168   186   210   120   144   168   192   216   250	79.5 45 57 69 81 93 48 60 72 84 94.5 113	6 6 6 6 6 6 6 6 6 6 6 6 6	25.5 27 27 27 27 27 30 30 30 30 30 30 30 30 30	60 60 60 60 72 72 72 72 72 72 72 72 72 72	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1.5   1.5	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	229 270 311 351 392 287 336 385 433 482 551
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138 SPP-S60-186 SPP-S60-186 SPP-S60-210 SPP-S72-120 SPP-S72-120 SPP-S72-144 SPP-S72-168 SPP-S72-168 SPP-S72-192 SPP-S72-216 SPP-S72-250 SPP-S72-250	1457 1814 1395 1689 1983 2276 2570 2115 2538 2961 3384 3807 4406 3310	1340 1690 1245 1530 1820 2105 2395 2395 1865 2285 2700 3115 3530 4120	153 189 120 144 168 192 216 126 150 174 198 222 256 144	63 69 69 69 69 81 81 81 81 81 81 93	183   114   138   168   186   210   120   144   168   192   216   250   138	79.5 45 57 69 81 93 48 60 72 84 94.5 113 57	6 6 6 6 6 6 6 6 6 6 6 6 6 6	25.5 27 27 27 27 27 30 30 30 30 30 30 30 30 30 30 30	60 60 60 60 72 72 72 72 72 72 72 72 72 72 72 84	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1.5   1.5	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	229 270 311 351 392 287 336 385 433 482 551 464 532
SPP-S54-147 SPP-S54-183 SPP-S60-114 SPP-S60-138 SPP-S60-168 SPP-S60-186	1457 1814 1395 1689 1983 2276 2570 2115 2538 2961 3384 3807 4406 3310 3886	1340 1690 1245 1530 1820 2105 2395 2395 1865 2285 2700 3115 3530 4120 2915 3480	153 189 120 144 168 192 216 126 150 174 198 222 256 144 168	63 69 69 69 69 81 81 81 81 81 81 93 93	183   114   138   168   186   210   120   144   168   192   216   250   138   162	79.5 45 57 69 81 93 48 60 72 84 94.5 113 57 69	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	25.5 27 27 27 27 27 30 30 30 30 30 30 30 30 30 30	60   60   60   60   60   72   72   72   72   72   72   72   72   72   72   72   72   72   72   84   84	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1.5   1.5	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	229 270 311 351 392 287 336 385 433 482 551

A – Tank Part Number

B – Nominal Gallon Capacity\*

C – Actual Capacity\*

D – Vertical Height

E – Horizontal Height

F – "L"

G-"D"

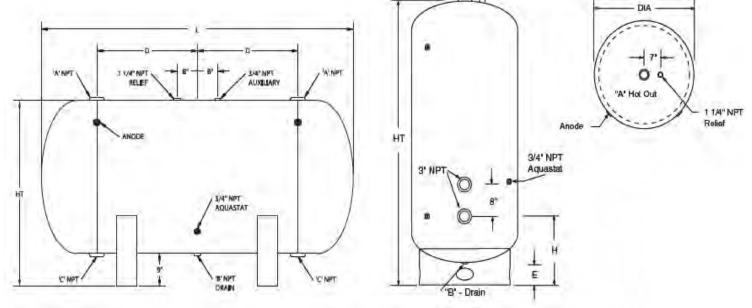
H – Base Clearance "E" I – "H"

J – Diameter

K-Tapping "A"

- L Tapping "B"
- M-Tapping "C"
- N Weight

A" Hot Out



\*Nominal gallon capacity is listed for comparison purposes . Nominal gallon capacity refers to a hypothetical measurement in a case where overall tank length remains the same but instead of an elliptical head and base , the gallons are calculated as if it was built with at heads and base. - See diagram

\*Nominal capacity includes the white area in addition to actual tank capacity.



W-H-196 Test = 7.0 - 8.0 mg/in2	PEI T-21 Spot Acid Test = Class A
The W-H-196 Test is required for water heaters	PEI T-21 Spot Acid Test is used to determine
sold to the U.S. Government.	enamel resistance to acids. The test area is
The test consists of exposing the enamel to a	examined for visible effects on the enamel and
boiling (212 F) 4/10% solution of Sodium	is graded from Class AA (no sign of etching) to
B icarbonate for eight (8), eighteen (18) hour cycles.	Class D (etched surface).
Maximum weight loss after eight cycles is not to	
exceed 15 mg/in2 .	
Impact resistance = Class 4 to 5	Hi-Pot Test Less than 20
The Impact Resistance Test is used to determine	The HYPO Test is a measurement of the
the adhesive qualities of enamel to the substrate.	continuity of the glass coating (Spark Test).
The enamel is graded from Class 1 (worst) to Class	Fifty (50) breakthroughs or fewer are the usual
5 (best), fractured glass adhering solidly to the	speciation for HWT's.
impact area. Class 3 is acceptable.	
1	

All water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All potable water and electrical connections are ¾"NPT (19mm) on 8"(203mm) centers. All models are UL listed.

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement,

Suitable for Water (Potable) Heating and Space Heating.