AQUASTORE® TANK CAPACITY CHART
WATER TANKS WITH CONCRETE FLOORS (x 1000 US Gallons)

CST

Model Diameter	# Sheets	Exact Diameter (feet)	Capacity Per Foot (gallons)	Max Water Depth (Ft) AWWA Z = 4 A .375" max.	B .5" max.	5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76	51.34	55.92	60.51	65.09	69.67	74.26
						Actual Sidewall Height (feet) - Number of Rings - Courses															
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
11	4	11.19	735	28.4	**28.4**	4	7	10	14	17	20	-	-	-	-	-	-	-	-	-	-
												-	-	-	-	-	-	-	-	-	-
14	5	13.98	1,149	69.3	**69.9**	6	11	16	22	27	32	37	43	48	53	58	64	69	74	79	80
																				68.79	72.49
17	6	16.78	1,655	63.7	**70.2**	9	16	24	31	39	47	54	62	69	77	84	92	100	106	112	116
																			64.21	67.91	71.61
20	7	19.58	2,252	60.5	**70.5**	12	22	33	43	53	64	74	84	94	105	115	125	134	142	150	158
																		59.62	63.33	67.03	70.73
22	8	22.37	2,942	57.5	**70.8**	16	29	43	56	70	83	97	110	124	137	151	164	175	186	197	208
																		59.62	63.33	67.03	70.73
25	9	25.17	3,724	54.9	**71.1**	20	37	54	71	88	105	122	139	157	174	191	204	218	232	246	260
																	55.04	58.74	62.44	66.15	69.85
28	10	27.97	4,597	52.9	**69.1**	25	46	67	88	109	130	151	172	193	214	236	253	270	287	304	317
																	55.04	58.74	62.44	66.15	69.85
31	11	30.77	5,563	50.3	**66.5**	30	56	81	107	132	158	183	209	234	260	280	301	321	342	363	369
																50.46	54.16	57.86	61.56	65.26	68.96
34	12	33.56	6,620	49.3	**64.6**	36	66	97	127	157	188	218	248	279	309	334	358	383	407	427	
																50.46	54.16	57.86	61.56	65.26	
36	13	36.36	7,770	48.3	**62.7**	42	78	114	149	185	220	256	292	327	363	392	420	449	478	487	
																50.46	54.16	57.86	61.56	65.26	
39	14	39.16	9,011	47.3	**61.2**	49	90	132	173	214	256	297	338	380	421	454	488	521	551		
																50.46	54.16	57.86	61.56		
42	15	41.96	10,345	46.8	**60.0**	57	104	151	199	246	294	341	388	436	483	521	560	598	620		
																50.46	54.16	57.86	61.56		
45	16	44.75	11,770	45.8	**58.8**	64	118	172	226	280	334	388	442	496	539	583	627	670	692		
															45.88	49.58	53.28	56.98	60.68		
48	17	47.55	13,287	44.8	**57.8**	73	134	195	255	316	377	438	499	560	609	658	707	757	767		
															45.88	49.58	53.28	56.98	60.68		
50	18	50.35	14,896	44.8	**57.0**	82	150	218	286	355	423	491	559	628	683	738	793	848	849		
															45.88	49.58	53.28	56.98	60.68		
53	19	53.15	16,598	43.8	**56.2**	91	167	243	319	395	471	547	623	700	761	822	884	932			
															45.88	49.58	53.28	56.98			
56	20	55.95	18,391	43.8	**55.6**	101	185	269	354	438	522	607	691	775	843	911	979	1,022			
															45.88	49.58	53.28	56.98			
59	21	58.74	20,276	42.8	**55.0**	111	204	297	390	483	576	669	762	855	930	1,005	1,080	1,115			
															45.88	49.58	53.28	56.98			
62	22	61.54	22,253	42.8	**54.5**	122	224	326	428	530	632	734	836	938	1,020	1,103	1,185	1,212			
															45.88	49.58	53.28	56.98			
64	23	64.34	24,322	42.2	**54.2**	134	245	356	468	579	691	802	914	1,025	1,094	1,184	1,274	1,318			
															44.99	48.69	52.40	56.10			
67	24	67.13	26,483	42.2	**53.9**	145	267	388	510	631	752	874	995	1,116	1,191	1,289	1,387	1,427			
															44.99	48.69	52.40	56.10			
70	25	69.93	28,736	41.2	**53.6**	158	290	421	553	685	816	948	1,080	1,211	1,292	1,399	1,505	1,540			
															44.99	48.69	52.40	56.10			
73	26	72.73	31,081	41.2	**53.3**	171	313	456	598	741	883	1,025	1,168	1,310	1,398	1,513	1,628	1,656			
															44.99	48.69	52.40	56.10			
76	27	75.53	33,518	41.1	**52.9**	184	338	491	645	799	952	1,106	1,259	1,384	1,508	1,632	1,756	1,773			
														41.29	44.99	48.69	52.40	56.10			
78	28	78.32	36,046	39.6	**52.4**	198	363	529	694	859	1,024	1,189	1,355	1,488	1,621	1,755	1,888	1,888			
														41.29	44.99	48.69	52.40	56.10			
81	29	81.12	38,667	38.2	**51.0**	213	390	567	744	921	1,099	1,276	1,453	1,596	1,739	1,882	1,972				
														41.29	44.99	48.69	52.40				
84	30	83.92	41,380	37.0	**49.3**	228	417	607	796	986	1,176	1,365	1,519	1,672	1,825	1,978	2,040				
													36.71	40.41	44.11	47.81	51.51				
87	31	86.72	44,184	35.8	**47.7**	243	445	648	850	1,053	1,255	1,458	1,621	1,785	1,949	2,107					
													36.71	40.41	44.11	47.81					
90	32	89.51	47,081	34.6	**46.2**	259	475	690	906	1,122	1,338	1,554	1,728	1,902	2,076	2,175					
													36.71	40.41	44.11	47.81					
92	33	92.31	50,070	33.6	**44.8**	275	505	734	964	1,193	1,423	1,652	1,838	2,023	2,208	2,243					
													36.71	40.41	44.11	47.81					
95	34	95.11	53,150	32.6	**43.5**	292	536	780	1,023	1,267	1,510	1,707	1,904	2,100	2,297	2,312					
												32.13	35.83	39.53	43.23	46.93					
98	35	97.91	56,323	31.7	**42.3**	310	568	826	1,084	1,342	1,600	1,809	2,017	2,226	2,382						
												32.13	35.83	39.53	43.23						
101	36	100.70	59,587	30.8	**41.1**	328	601	874	1,147	1,420	1,693	1,914	2,134	2,355	2,449						
												32.13	35.83	39.53	43.23						
104	37	103.50	62,944	30.0	**40.0**	346	635	923	1,212	1,500	1,789	2,022	2,255	2,488	2,517						
												32.13	35.83	39.53	43.23						

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Actual Sidewall Height (feet) - Number of Rings - Courses														
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SPLIT-CELL CHART KEY:

1,836
56.09

1. Top number is tank volume (x 1000) in US Gallons
2. Bottom number is actual sidewall height with 44" high shell sheets

Notes:

1. 100 mph wind speed
2. 25 psf live snow load
3. Seismic zone 4
4. Importance Factor, I = 1.25
5. Site Amplification Factor, S = 1.5
6. Specific gravity 1.0 @ STP
7. Structure height limitations dependent upon local soil conditions and construction techniques
8. AWWA Designates AWWA D103-97
9. Model Designation => Model Diameter & Model Sidewall Height
   Example: *Model Designation 4228 => 42' diameter & 28' height*
10. For steel floor option: Add .678' X Capacity Per Foot (gallons) to listed capacities
11. No freeboard allowance except in the darker gray shaded areas at the far right end of the rows, where the freeboard is variable

Part#: 274482-000
ECN#: 07387
Copyright 2020
CST Industries, Inc.

AQUASTORE®

AWWA Seismic 4 English Units

AQUASTORE® TANK CAPACITY CHART
WATER TANKS WITH CONCRETE FLOORS (x 1000 US Gallons)

CST

Model Diameter	# Sheets	Exact Diameter (feet)	Capacity Per Foot (gallons)	Max Water Depth (Ft) AWWA Z = 4 A .375" max.	B .5" max.	5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17	46.76	51.34	55.92	60.51	65.09	69.67	74.26																	
						Actual Sidewall Height (feet) - Number of Rings - Courses																																
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
106	38	106.30	66,392	29.2	**38.9**	365	670	974	1,278	1,582	1,887	2,132	2,378	2,582																								
												32.13	35.83	39.53																								
109	39	109.10	69,932	28.4	**37.9**	385	705	1,026	1,346	1,667	1,926	2,184	2,443	2,650																								
											27.54	31.24	34.95	38.65																								
112	40	111.90	73,565	27.7	**37.0**	405	742	1,079	1,416	1,753	2,026	2,298	2,570	2,721																								
											27.54	31.24	34.95	38.65																								
115	41	114.69	77,289	27.0	**36.1**	425	780	1,134	1,488	1,842	2,128	2,414	2,700	2,790																								
											27.54	31.24	34.95	38.65																								
117	42	117.49	81,105	26.4	**35.2**	446	818	1,190	1,562	1,933	2,233	2,534	2,834	2,854																								
											27.54	31.24	34.95	38.65																								
120	43	120.29	85,013	25.8	**34.4**	468	858	1,247	1,637	2,026	2,341	2,656	2,924																									
											27.54	31.24	34.95																									
123	44	123.09	89,013	25.2	**33.6**	490	898	1,306	1,714	2,122	2,451	2,781	2,990																									
											27.54	31.24	34.95																									
126	45	125.89	93,105	24.6	**32.9**	513	939	1,366	1,793	2,219	2,564	2,909	3,063																									
											27.54	31.24	34.95																									
129	46	128.68	97,289	24.1	**32.1**	536	981	1,427	1,873	2,319	2,679	3,039	3,122																									
											27.54	31.24	34.95																									
131	47	131.48	101,565	23.6	**31.5**	559	1,025	1,490	1,956	2,331	2,707	3,083	3,199																									
										22.96	26.66	30.36	34.06																									
134	48	134.27	105,933	23.1	**30.8**	583	1,069	1,554	2,040	2,432	2,824	3,216	3,262																									
										22.96	26.66	30.36	34.06																									
137	49	137.07	110,393	22.6	**30.2**	608	1,114	1,620	2,126	2,534	2,943	3,333																										
										22.96	26.66	30.36																										
140	50	139.87	114,945	22.2	**29.6**	633	1,160	1,686	2,213	2,639	3,064	3,402																										
										22.96	26.66	30.36																										
143	51	142.67	119,589	21.7	**29.0**	658	1,207	1,755	2,303	2,745	3,188	3,468																										
										22.96	26.66	30.36																										
145	52	145.46	124,324	21.3	**28.4**	685	1,254	1,824	2,394	2,854	3,314	3,530																										
										22.96	26.66	30.36																										
148	53	148.26	129,152	20.9	**27.9**	711	1,303	1,895	2,487	2,965	3,443	3,603																										
										22.96	26.66	30.36																										
151	54	151.06	134,072	20.5	**27.4**	738	1,353	1,967	2,582	3,078	3,574	3,673																										
										22.96	26.66	30.36																										
154	55	153.86	139,083	20.2	**26.9**	766	1,403	2,041	2,678	3,193	3,708	3,741																										
										22.96	26.66	30.36																										
157	56	156.66	144,187	19.8	**26.4**	794	1,455	2,116	2,776	3,310	3,806																											
										22.96	26.66																											
159	57	159.46	149,382	19.4	**25.9**	823	1,507	2,192	2,876	3,429	3,868																											
										22.96	26.66																											
162	58	162.26	154,670	19.1	**25.5**	852	1,561	2,269	2,842	3,414	3,944																											
									18.38	22.08	25.78																											
171	61	170.65	171,082	18.2	**24.2**	942	1,726	2,510	3,144	3,777	4,140																											
									18.38	22.08	25.78																											
179	64	179.04	188,318	17.3	**23.1**	1,037	1,900	2,763	3,460	4,157	4,350																											
									18.38	22.08	25.78																											
187	67	187.43	206,381	16.5	**22.1**	1,137	2,083	3,028	3,792	4,556	4,561																											
									18.38	22.08	25.78																											
193	69	193.03	218,898	16.1	**21.4**	1,206	2,209	3,212	4,022	4,684																												
									18.38	22.08																												
201	72	201.42	238,340	15.4	**20.5**	1,313	2,405	3,497	4,380	4,885																												
									18.38	22.08																												
210	75	209.81	258,609	14.8	**19.7**	1,424	2,610	3,795	4,752	5,094																												
									18.38	22.08																												
218	78	218.20	279,712	14.2	**18.9**	1,541	2,823	3,858	4,893	5,286																												
								13.79	17.50	21.20																												
227	81	226.59	301,642	13.7	**18.2**	1,662	3,044	4,160	5,277	5,489																												
								13.79	17.50	21.20																												
235	84	234.99	324,399	13.2	**17.6**	1,787	3,274	4,474	5,675	5,709																												
								13.79	17.50	21.20																												
243	87	243.38	347,984	12.7	**17.0**	1,917	3,512	4,800	5,915																													
								13.79	17.50																													

SPLIT-CELL CHART KEY:

1,836	1. Top number is tank volume (x 1000) in US Gallons
56.09	2. Bottom number is actual sidewall height with 44" high shell sheets

Notes:

1. 100 mph wind speed
2. 25 psf live snow load
3. Seismic zone 4
4. Importance Factor, I = 1.25
5. Site Amplification Factor, S = 1.5
6. Specific gravity 1.0 @ STP
7. Structure height limitations dependent upon local soil conditions and construction techniques
8. AWWA Designates AWWA D103-97
9. Model Designation => Model Diameter & Model Sidewall Height
   Example: *Model Designation 4228 => 42' diameter & 28' height*
10. For steel floor option: Add .678' X Capacity Per Foot (gallons) to listed capacities
11. No freeboard allowance except in the darker gray shaded areas at the far right end of the rows, where the freeboard is variable

Part#: 274482-000
ECN#: 07387
Copyright 2020
CST Industries, Inc.

AWWA Seismic 4 English Units

AQUASTORE®