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 = 0,1 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	78.84	83.42	88.00	92.59	97.17	101.75	106.34	110.92	115.50	120.09	124.67	129.25	133.83	138.42		
						Actual Sidewall Height (feet) - Number of Rings - Courses														Actual Sidewall Height (feet) - Number of Rings - Courses											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	32
11	4	11.19	735	65.1	**65.1**	4	7	10	14	17	20	24	27	30	34	37	41	44	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	5	13.98	1,149	138.4	**138.4**	6	11	16	22	27	32	37	43	48	53	58	64	69	74	80	85	90	95	101	106	111	116	122	127	132	137	143	148	153	159	-	-
																																				-	-
17	6	16.78	1,655	138.4	**138.4**	9	16	24	31	39	47	54	62	69	77	84	92	100	107	115	122	130	138	145	153	160	168	175	183	191	198	206	213	221	229	-	-
																																				-	-
20	7	19.58	2,252	138.4	**138.4**	12	22	33	43	53	64	74	84	94	105	115	125	136	146	156	167	177	187	198	208	218	229	239	249	260	270	280	291	301	311	-	-
																																				-	-
22	8	22.37	2,942	138.4	**138.4**	16	29	43	56	70	83	97	110	124	137	151	164	178	191	204	218	231	245	258	272	285	299	312	326	339	353	366	380	393	407	-	-
																																				-	-
25	9	25.17	3,724	123.2	**138.4**	20	37	54	71	88	105	122	139	157	174	191	208	225	242	259	276	293	310	327	344	361	378	395	413	430	447	460	474	488	502	515	-
																																123.79	127.49	131.19	134.89	138.60	-
28	10	27.97	4,597	110.9	**138.4**	25	46	67	88	109	130	151	172	193	214	236	257	278	299	320	341	362	383	404	425	446	467	488	505	522	539	556	573	590	607	624	636
																														113.74	117.44	121.14	124.84	128.55	132.25	135.95	139.65
31	11	30.77	5,563	100.8	**134.6**	30	56	81	107	132	158	183	209	234	260	285	311	336	362	387	413	438	464	489	515	540	561	581	602	622	643	664	684	705	725	746	748
																											100.87	104.57	108.27	111.97	115.68	119.38	123.08	126.78	130.48	134.18	137.88
34	12	33.56	6,620	92.4	**123.2**	36	66	97	127	157	188	218	248	279	309	339	370	400	430	461	491	521	552	582	607	631	656	680	705	729	754	778	803	815			
																									91.71	95.41	99.11	102.81	106.51	110.22	113.92	117.62	121.32	125.02			
36	13	36.36	7,770	85.3	**113.9**	42	78	114	149	185	220	256	292	327	363	398	434	470	505	541	576	612	648	676	705	734	763	791	820	849	878	885					
																								87.12	90.82	94.52	98.22	101.93	105.63	109.33	113.03	116.73					
39	14	39.16	9,011	79.2	**105.7**	49	90	132	173	214	256	297	338	380	421	426	503	545	586	627	669	710	743	777	810	843	877	910	943	952							
																							82.54	86.24	89.94	93.64	97.34	101.05	104.75	108.45							
42	15	41.96	10,345	73.9	**98.7**	57	104	151	199	246	294	341	388	436	483	531	578	625	673	720	759	797	835	873	912	950	988	1,021									
																					73.37	77.07	80.77	84.47	88.17	91.88	95.58	99.28									
45	16	44.75	11,770	69.3	**92.5**	64	118	172	226	280	334	388	442	496	550	604	658	712	766	809	853	896	940	983	1,027	1,071	1,088										
																				68.79	72.49	76.19	79.89	83.59	87.30	91.00	94.70										
48	17	47.55	13,287	65.2	**87.1**	73	134	195	255	316	377	438	499	560	621	682	743	803	864	914	963	1,012	1,061	1,110	1,157												
																				68.79	72.49	76.19	79.89	83.60	87.30												
50	18	50.35	14,896	61.6	**82.2**	82	150	218	286	355	423	491	559	628	696	764	833	901	956	1,011	1,066	1,121	1,176	1,224													
																			64.21	67.91	71.61	75.31	79.01	82.71													
53	19	53.15	16,598	58.3	**77.9**	91	167	243	319	395	471	547	623	700	776	852	928	989	1,051	1,112	1,173	1,235	1,292														
																		59.62	63.33	67.03	70.73	74.43	78.13														
56	20	55.95	18,391	55.4	**74.0**	101	185	269	354	438	522	607	691	775	859	944	1,012	1,080	1,148	1,216	1,284	1,352	1,360														
																	55.04	58.74	62.44	66.15	69.85	73.55	77.25														
59	21	58.74	20,276	52.8	**70.5**	111	204	297	390	483	576	669	762	855	948	1,040	1,115	1,191	1,266	1,241	1,416	1,429															
																	55.04	58.74	62.44	66.15	69.85	73.55															
62	22	61.54	22,253	50.4	**67.3**	122	224	326	428	530	632	734	836	938	1,040	1,122	1,205	1,287	1,369	1,452	1,497																
																	50.46	54.16	57.86	61.56	65.26	68.96															
64	23	64.34	24,322	48.2	**64.3**	134	245	356	468	579	691	802	914	1,025	1,137	1,227	1,317	1,407	1,497	1,563																	
																	50.46	54.16	57.86	61.56	65.26																
67	24	67.13	26,483	46.2	**61.7**	145	267	388	510	631	752	874	995	1,116	1,214	1,313	1,411	1,509	1,606	1,634																	
															45.88	49.58	53.28	56.98	60.68	64.38																	
70	25	69.93	28,736	44.3	**59.2**	158	290	421	553	685	816	948	1,080	1,211	1,318	1,424	1,531	1,637	1,701																		
															45.88	49.58	53.28	56.98	60.68																		
73	26	72.73	31,081	42.6	**56.9**	171	313	456	598	741	883	1,025	1,168	1,310	1,425	1,540	1,655	1,768																			
															45.88	49.58	53.28	56.98																			
76	27	75.53	33,518	41.1	**54.8**	184	338	491	645	799	952	1,106	1,259	1,383	1,507	1,631	1,756	1,836																			
														41.29	44.99	48.69	52.40	56.09																			
78	28	78.32	36,046	39.6	**52.8**	198	363	529	694	859	1,024	1,189	1,355	1,488	1,621	1,755	1,888	1,903																			
														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**	246	445	648	850	1,053	1,255	1,458	1,621	1,785	1,948	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	2,101	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	2,018	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	2,135	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																						

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 0 & 1
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#: 274400-000
ECN#: 07387
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Engineered Storage Products

AQUASTORE®

AWWA Seismic 0,1 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 = 0,1 A .375" max.	B .5" max.	5.51	10.09	14.68	19.26	23.84	28.43	33.01	37.59	42.17
						Actual Sidewall Height (feet) - Number of Rings - Courses								
						1	2	3	4	5	6	7	8	9
106	38	106.30	66,392	29.2	**38.9**	365	670	974	1,278	1,582	1,887	2,133	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	2,444	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	2,571	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	2,701	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	2,533	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	2,655	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	2,780	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	2,908	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	3,707	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	3,415	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	3,461	4,158	4,350			
									18.38	22.08	25.78			
187	67	187.43	206,381	16.5	**22.1**	1,137	2,083	3,028	3,793	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	4,023	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	4,753	5,094				
									18.38	22.08				
218	78	218.20	279,712	14.2	**18.9**	1,541	2,823	3,858	4,894	5,286				
								13.79	17.50	21.20				
227	81	226.59	301,642	13.7	**18.2**	1,662	3,044	4,159	5,278	5,489				
								13.79	17.50	21.20				
235	84	234.99	324,399	13.2	**17.6**	1,778	3,274	4,473	5,676	5,709				
								13.79	17.50	21.20				
243	87	243.38	347,984	12.7	**17.0**	1,917	3,512	4,798	5,915					
								13.79	17.50					

46.76	51.34	55.92	60.51	65.09	69.67	74.26	78.84	83.42	88.00	92.59	97.17	101.75	106.34	110.92	115.50	120.09	124.67	129.25	133.83	138.42
Actual Sidewall Height (feet) - Number of Rings - Courses																				
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

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

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