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 = 3 A .375" max.	B .5" max.	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
						Actual Sidewall Height (feet) - Number of Rings - Courses																		Actual Sidewall Height (feet) - Number of Rings - Courses												
						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														
11	4	11.19	735	32.8	**32.9**	4	7	10	14	17	20	23	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
													35.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	5	13.98	1,149	80.1	**80.7**	6	11	16	22	27	32	37	43	48	53	58	64	69	74	80	85	90	92	-	-	-	-	-	-	-	-	-	-	-	-	-
																							82.54	-	-	-	-	-	-	-	-	-	-	-	-	-
17	6	16.78	1,655	73.9	**80.9**	9	16	24	31	39	47	54	62	69	77	84	92	100	107	115	121	127	133	-	-	-	-	-	-	-	-	-	-	-	-	-
																					73.37	77.07	80.78	-	-	-	-	-	-	-	-	-	-	-	-	-
20	7	19.58	2,252	69.3	**81.1**	12	22	33	43	53	64	74	84	94	105	115	125	136	146	154	163	171	179	182	-	-	-	-	-	-	-	-	-	-	-	-
																				68.79	72.49	76.19	79.89	83.60	-	-	-	-	-	-	-	-	-	-	-	-
22	8	22.37	2,942	65.7	**81.5**	16	29	43	56	70	83	97	110	124	137	151	164	178	191	202	213	224	235	239												
																				68.79	72.49	76.19	79.89	83.60												
25	9	25.17	3,724	62.7	**81.8**	20	37	54	71	88	105	122	139	157	174	191	208	225	239	252	266	280	294	304												
																			64.21	67.91	71.61	75.31	79.01	82.71												
28	10	27.97	4,597	60.5	**79.3**	25	46	67	88	109	130	151	172	193	214	236	257	274	291	308	325	342	359	364												
																		59.62	63.33	67.03	70.73	74.43	78.13	81.83												
31	11	30.77	5,563	58.5	**76.5**	30	56	81	107	132	158	183	209	234	260	285	311	331	352	372	393	414	425													
																		59.62	63.33	67.03	70.73	74.43	78.13													
34	12	33.56	6,620	56.5	**74.1**	36	66	97	127	157	188	218	248	279	309	339	370	394	419	443	468	490														
																		59.62	63.33	67.03	70.73	74.43														
36	13	36.36	7,770	54.9	**71.9**	42	78	114	149	185	220	256	292	327	363	398	427	456	485	513	542	558														
																	55.04	58.74	62.44	66.15	69.85	73.55														
39	14	39.16	9,011	53.9	**70.0**	49	90	132	173	214	256	297	338	380	421	462	495	529	562	596	629	630														
																	55.04	58.74	62.44	66.15	69.85	73.55														
42	15	41.96	10,345	52.9	**68.4**	57	104	151	199	246	294	341	388	436	483	531	569	607	645	684	707															
																	55.04	58.74	62.44	66.15	69.85															
45	16	44.75	11,770	51.9	**67.0**	64	118	172	226	280	334	388	442	496	550	604	647	691	734	778	788															
																	55.04	58.74	62.44	66.15	69.85															
48	17	47.55	13,287	51.3	**65.8**	73	134	195	255	316	377	438	499	560	621	670	719	768	817	867	874															
																50.46	54.16	57.86	61.56	65.26	68.96															
50	18	50.35	14,896	50.3	**64.8**	82	150	218	286	355	423	491	559	628	696	751	806	861	917	965																
																50.46	54.16	57.86	61.56	65.26																
53	19	53.15	16,598	49.3	**63.8**	91	167	243	319	395	471	547	623	700	776	837	898	960	1,021	1,058																
																50.46	54.16	57.86	61.56	65.26																
56	20	55.95	18,391	49.3	**62.8**	101	185	269	354	438	522	607	691	775	859	927	996	1,064	1,132	1,154																
																50.46	54.16	57.86	61.56	65.26																
59	21	58.74	20,276	48.3	**62.1**	111	204	297	390	483	576	669	762	855	948	1,023	1,098	1,173	1,248																	
																50.46	54.16	57.86	61.56																	
62	22	61.54	22,253	48.3	**61.5**	122	224	326	428	530	632	734	836	938	1,040	1,122	1,205	1,287	1,368																	
																50.46	54.16	57.86	61.56																	
64	23	64.34	24,322	48.2	**60.9**	134	245	356	468	579	691	802	914	1,025	1,137	1,227	1,317	1,407	1,481																	
																50.46	54.16	57.86	61.56																	
67	24	67.13	26,483	46.2	**60.6**	145	267	388	510	631	752	874	995	1,116	1,214	1,312	1,410	1,508	1,604																	
															45.88	49.58	53.28	56.98	60.68																	
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	1,530	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	1,384	1,508	1,632	1,756	1,836																		
														41.29	44.99	48.69	52.40	56.10																		
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**	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																					

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 3
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#: 274481-000
ECN#: 07387
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AQUASTORE®

AWWA Seismic 3 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 = 3 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
						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
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													

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

SPLIT-CELL CHART KEY:

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