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 = 2B 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
						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
11	4	11.19	735	40.2	**40.2**	4	7	10	14	17	20	24	27	29	-	-	-	-	-	-	-	-	-	-	-	-
														41.29	-	-	-	-	-	-	-	-	-	-	-	-
14	5	13.98	1,149	97.8	**98.8**	6	11	16	22	27	32	37	43	48	53	58	64	69	74	80	85	90	95	101	106	111
17	6	16.78	1,655	91.2	**99.0**	9	16	24	31	39	47	54	62	69	77	84	92	100	107	115	122	130	138	145	151	157
																									91.71	95.41
20	7	19.58	2,252	84.7	**99.3**	12	22	33	43	53	64	74	84	94	105	115	125	136	146	156	167	177	187	196	204	212
																								87.12	90.82	94.52
22	8	22.37	2,942	80.1	**99.5**	16	29	43	56	70	83	97	110	124	137	151	164	178	191	204	218	231	242	253	264	275
																							82.54	86.24	89.94	93.64
25	9	25.17	3,724	76.5	**99.8**	20	37	54	71	88	105	122	139	157	174	191	208	225	242	259	276	290	304	317	331	345
																						77.96	81.66	85.36	89.06	92.76
28	10	27.97	4,597	72.9	**96.5**	25	46	67	88	109	130	151	172	193	214	236	257	278	299	320	337	354	371	388	405	422
																					73.37	77.07	80.78	84.48	88.18	91.88
31	11	30.77	5,563	70.9	**92.7**	30	56	81	107	132	158	183	209	234	260	285	311	336	362	387	408	428	449	469	490	511
																					73.37	77.07	80.78	84.48	88.18	91.88
34	12	33.56	6,620	68.3	**89.6**	36	66	97	127	157	188	218	248	279	309	339	370	400	430	455	479	504	528	553	577	593
																				68.79	72.49	76.19	79.89	83.60	87.30	91.00
36	13	36.36	7,770	66.3	**86.9**	42	78	114	149	185	220	256	292	327	363	398	434	470	505	534	563	592	620	649	675	
																				68.79	72.49	76.19	79.89	83.60	87.30	
39	14	39.16	9,011	64.7	**84.4**	49	90	132	173	214	256	297	338	380	421	462	503	545	578	611	645	678	711	745	760	
																			64.21	67.91	71.61	75.31	79.01	82.71	86.41	
42	15	41.96	10,345	62.7	**82.3**	57	104	151	199	246	294	341	388	436	483	531	578	625	664	702	740	779	817	851		
																			64.21	67.91	71.61	75.31	79.01	82.71		
45	16	44.75	11,770	61.7	**80.4**	64	118	172	226	280	334	388	442	496	550	604	658	712	755	799	842	886	929	946		
																			64.21	67.91	71.61	75.31	79.01	82.71		
48	17	47.55	13,287	60.5	**78.6**	73	134	195	255	316	377	438	499	560	621	682	743	803	841	890	939	988	1,038	1,044		
																			63.33	67.03	70.73	74.43	78.13	81.83		
50	18	50.35	14,896	59.5	**77.2**	82	150	218	286	355	423	491	559	628	696	764	833	888	943	998	1,053	1,108	1,149			
																		59.62	63.33	67.03	70.73	74.43	78.13			
53	19	53.15	16,598	58.4	**75.8**	91	167	243	319	395	471	547	623	700	776	852	928	989	1,051	1,112	1,173	1,235	1,258			
																		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	1,116	1,191	1,266	1,341	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	1,312	1,410	1,508	1,606	1,634						
															45.88	49.58	53.28	56.98	60.68	64.38						
70	25	69.93	28,736	44.4	**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											

Model Diameter	# Sheets	97.17	22	23	24	25	26	27	28	29	30	31
		Actual Sidewall Height (feet) - Number of Rings - Courses										
		21	22	23	24	25	26	27	28	29	30	31
11	4	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-
14	5	111	113	-	-	-	-	-	-	-	-	-
			100.87	-	-	-	-	-	-	-	-	-
17	6	157	163	-	-	-	-	-	-	-	-	-
		95.41	99.11	-	-	-	-	-	-	-	-	-
20	7	94.52	98.23	101.93	-	-	-	-	-	-	-	-
22	8	93.64	97.34	101.05								
25	9	92.76	96.46	100.16								
28	10	91.88	95.58	99.28								
31	11	91.88	95.58									
34	12	91.00										
36	13											
39	14											
42	15											
45	16											
48	17											
50	18											
53	19											
56	20											
59	21											
62	22											
64	23											
67	24											
70	25											
73	26											
76	27											
78	28											
81	29											
84	30											
87	31											
90	32											
92	33											
95	34											
98	35											
101	36											
104	37											

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 2B
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#: 274480-000
ECN#: 07387
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AQUASTORE®

AWWA Seismic 2B 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 = **2B** 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
						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
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																	

Model Diameter	# Sheets	97.17	22	23	24	25	26	27	28	29	30	31
		Actual Sidewall Height (feet) - Number of Rings - Courses										
		21	22	23	24	25	26	27	28	29	30	31
106	38											
109	39											
112	40											
115	41											
117	42											
120	43											
123	44											
126	45											
129	46											
131	47											
134	48											
137	49											
140	50											
143	51											
145	52											
148	53											
151	54											
154	55											
157	56											
159	57											
162	58											
171	61											
179	64											
187	67											
193	69											
201	72											
210	75											
218	78											
227	81											
235	84											
243	87											

SPLIT-CELL CHART KEY:

1,836
56.09

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2. Bottom number is actual sidewall height with 44" high shell sheets

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