AQUASTORE® Tanks & Domes

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

AQUASTORE® Tanks & Domes

Model Diameter	# Sheets	Exact Diameter (feet)	Capacity Per Foot (gallons)	Max Water Depth (Ft) AWWA Z = 2A A .375" max.	B .5" max.	Actual Sidewall Height (feet) - Number of Rings - Courses 5.51 / 1	10.09 / 2	14.68 / 3	19.26 / 4	23.84 / 5	28.43 / 6	33.01 / 7	37.59 / 8	42.17 / 9	46.76 / 10	51.34 / 11	55.92 / 12	60.51 / 13	65.09 / 14	69.67 / 15	74.26 / 16	78.84 / 17	83.42 / 18	88.00 / 19	92.59 / 20	97.17 / 21	101.75 / 22	106.34 / 23	110.92 / 24	25	26	27	28	29	30	31
11	4	11.19	735	46.4	**46.4**	4	7	10	14	17	20	24	27	30	33	34 49.58	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
14	5	13.98	1,149	113.2	**114.1**	6	11	16	22	27	32	37	43	48	53	58	64	69	74	80	85	90	95	101	106	111	116	122	127	131 114.62	- -	- -	- -	- -	- -	- -	- -
17	6	16.78	1,655	105.0	**114.2**	9	16	24	31	39	47	54	62	69	77	84	92	100	107	115	122	130	138	145	153	160	168	174 105.45	180 109.16	186 112.86	189 116.56	- -	- -	- -	- -	- -	- -	- -
20	7	19.58	2,252	98.4	**114.4**	12	22	33	43	53	64	74	84	94	105	115	125	136	146	156	167	177	187	198	208	218	227 100.87	235 104.57	243 108.27	252 111.98	257 115.68	- -	- -	- -	- -	- -	- -	- -
22	8	22.37	2,942	92.2	**114.6**	16	29	43	56	70	83	97	110	124	137	151	164	178	191	204	218	231	245	258	269 91.71	280 95.41	291 99.11	302 102.81	313 106.51	324 110.21	335 113.91	337 117.61						
25	9	25.17	3,724	88.7	**114.9**	20	37	54	71	88	105	122	139	157	174	191	208	225	242	259	276	293	310	327	341 91.71	355 95.41	369 99.11	382 102.81	396 106.51	410 110.21	424 113.91	427 117.61						
28	10	27.97	4,597	84.7	**110.9**	25	46	67	88	109	130	151	172	193	214	236	257	278	299	320	341	362	383	400 87.12	417 90.82	434 94.52	451 98.23	468 101.93	485 105.63	502 109.33	509 113.03						
31	11	30.77	5,563	81.1	**106.7**	30	56	81	107	132	158	183	209	234	260	285	311	336	362	387	413	438	459 82.54	479 86.24	500 89.94	520 93.64	541 97.34	562 101.05	582 104.75	593 108.45							
34	12	33.56	6,620	78.5	**102.9**	36	66	97	127	157	188	218	248	279	309	339	370	400	430	461	491	516 77.96	540 81.66	565 85.36	589 89.06	614 92.76	638 96.46	663 100.16	681 103.87								
36	13	36.36	7,770	75.5	**99.6**	42	78	114	149	185	220	256	292	327	363	398	434	470	505	541	576	605 77.96	634 81.66	663 85.36	691 89.06	720 92.76	749 96.46	773 100.16									
39	14	39.16	9,011	73.9	**96.6**	49	90	132	173	214	256	297	338	380	421	462	503	545	586	627	661 73.37	694 77.07	727 80.78	761 84.48	794 88.18	827 91.88	861 95.58	870 99.28								
42	15	41.96	10,345	71.9	**93.9**	57	104	151	199	246	294	341	388	436	483	531	578	625	673	720	759 73.37	797 77.07	835 80.78	873 84.48	912 88.18	950 91.88	971 95.58									
45	16	44.75	11,770	69.3	**91.6**	64	118	172	226	280	334	388	442	496	550	604	658	712	766	809 68.79	853 72.49	896 76.19	940 79.89	983 83.60	1,027 87.30	1,071 91.00	1,078 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 68.79	963 72.49	1,012 76.19	1,061 79.89	1,110 83.60	1,157 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 64.21	1,011 67.91	1,066 71.61	1,121 75.31	1,176 79.01	1,224 82.71											
53	19	53.15	16,598	58.4	**77.9**	91	167	243	319	395	471	547	623	700	776	852	928	989 59.62	1,051 63.33	1,112 67.03	1,173 70.73	1,235 74.43	1,292 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 55.04	1,080 58.74	1,148 62.44	1,216 66.15	1,284 69.85	1,352 73.55	1,360 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 55.04	1,191 58.74	1,266 62.44	1,341 66.15	1,416 69.85	1,429 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 50.46	1,205 54.16	1,287 57.86	1,369 61.56	1,452 65.26	1,497 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 50.46	1,317 54.16	1,407 57.86	1,497 61.56	1,563 65.26														
67	24	67.13	26,483	46.2	**61.7**	145	267	388	510	631	752	874	995	1,116	1,214 45.88	1,312 49.58	1,410 53.28	1,508 56.98	1,606 60.68	1,634 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 45.88	1,424 49.58	1,530 53.28	1,637 56.98	1,701 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 45.88	1,540 49.58	1,655 53.28	1,768 56.98															
76	27	75.53	33,518	41.1	**54.8**	184	338	491	645	799	952	1,106	1,259	1,384 41.29	1,508 44.99	1,632 48.69	1,756 52.40	1,836 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 41.29	1,621 44.99	1,755 48.69	1,888 52.40	1,903 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 41.29	1,739 44.99	1,882 48.69	1,972 52.40																
84	30	83.92	41,380	37.0	**49.3**	228	417	607	796	986	1,176	1,365	1,519 36.71	1,672 40.41	1,825 44.11	1,978 47.81	2,040 51.51																
87	31	86.72	44,184	35.8	**47.7**	243	445	648	850	1,053	1,255	1,458	1,621 36.71	1,785 40.41	1,949 44.11	2,107 47.81																	
90	32	89.51	47,081	34.6	**46.2**	259	475	690	906	1,122	1,338	1,554	1,728 36.71	1,902 40.41	2,076 44.11	2,175 47.81																	
92	33	92.31	50,070	33.6	**44.8**	275	505	734	964	1,193	1,423	1,652	1,838 36.71	2,023 40.41	2,208 44.11	2,243 47.81																	
95	34	95.11	53,150	32.6	**43.5**	292	536	780	1,023	1,267	1,510	1,707 32.13	1,904 35.83	2,100 39.53	2,297 43.23	2,312 46.93																	
98	35	97.91	56,323	31.7	**42.3**	310	568	826	1,084	1,342	1,600	1,809 32.13	2,017 35.83	2,226 39.53	2,382 43.23																		
101	36	100.70	59,587	30.8	**41.1**	328	601	874	1,147	1,420	1,693	1,914 32.13	2,134 35.83	2,355 39.53	2,449 43.23																		
104	37	103.50	62,944	30.0	**40.0**	346	635	923	1,212	1,500	1,789	2,022 32.13	2,255 35.83	2,488 39.53	2,517 43.23																		

AQUASTORE® Tanks & Domes
Glass Tanks with a Heart of Steel™

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 2A
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

AQUASTORE® Tanks & Domes

AWWA Seismic 2A English Units

Part#: 274479-000
ECN#: 07387
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Model Diameter	# Sheets	Exact Diameter (feet)	Capacity Per Foot (gallons)	Max Water Depth (Ft) AWWA Z = 2A A .375" max.	B .5" max.	Actual Sidewall Height (feet) - Number of Rings - Courses 5.51 (1)	10.09 (2)	14.68 (3)	19.26 (4)	23.84 (5)	28.43 (6)	33.01 (7)	37.59 (8)	42.17 (9)	46.76 (10)	51.34 (11)	55.92 (12)	60.51 (13)	65.09 (14)	69.67 (15)	74.26 (16)	78.84 (17)	83.42 (18)	88.00 (19)	92.59 (20)	97.17 (21)	101.75 (22)	106.34 (23)	110.92 (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 32.13	2,378 35.83	2,582 39.53																						
109	39	109.10	69,932	28.4	**37.9**	385	705	1,026	1,346	1,667	1,926 27.54	2,184 31.24	2,443 34.95	2,650 38.65																						
112	40	111.90	73,565	27.7	**37.0**	405	742	1,079	1,416	1,753	2,026 27.54	2,298 31.24	2,570 34.95	2,721 38.65																						
115	41	114.69	77,289	27.0	**36.1**	425	780	1,134	1,488	1,842	2,128 27.54	2,414 31.24	2,700 34.95	2,790 38.65																						
117	42	117.49	81,105	26.4	**35.2**	446	818	1,190	1,562	1,933	2,233 27.54	2,534 31.24	2,834 34.95	2,854 38.65																						
120	43	120.29	85,013	25.8	**34.4**	468	858	1,247	1,637	2,026	2,341 27.54	2,656 31.24	2,924 34.95																							
123	44	123.09	89,013	25.2	**33.6**	490	898	1,306	1,714	2,122	2,451 27.54	2,781 31.24	2,990 34.95																							
126	45	125.89	93,105	24.6	**32.9**	513	939	1,366	1,793	2,219	2,564 27.54	2,909 31.24	3,063 34.95																							
129	46	128.68	97,289	24.1	**32.1**	536	981	1,427	1,873	2,319	2,679 27.54	3,039 31.24	3,122 34.95																							
131	47	131.48	101,565	23.6	**31.5**	559	1,025	1,490	1,956	2,331 22.96	2,707 26.66	3,083 30.36	3,199 34.06																							
134	48	134.27	105,933	23.1	**30.8**	583	1,069	1,554	2,040	2,432 22.96	2,824 26.66	3,216 30.36	3,262 34.06																							
137	49	137.07	110,393	22.6	**30.2**	608	1,114	1,620	2,126	2,534 22.96	2,943 26.66	3,333 30.36																								
140	50	139.87	114,945	22.2	**29.6**	633	1,160	1,686	2,213	2,639 22.96	3,064 26.66	3,402 30.36																								
143	51	142.67	119,589	21.7	**29.0**	658	1,207	1,755	2,303	2,745 22.96	3,188 26.66	3,468 30.36																								
145	52	145.46	124,324	21.3	**28.4**	685	1,254	1,824	2,394	2,854 22.96	3,314 26.66	3,530 30.36																								
148	53	148.26	129,152	20.9	**27.9**	711	1,303	1,895	2,487	2,965 22.96	3,443 26.66	3,603 30.36																								
151	54	151.06	134,072	20.5	**27.4**	738	1,353	1,967	2,582	3,078 22.96	3,574 26.66	3,673 30.36																								
154	55	153.86	139,083	20.2	**26.9**	766	1,403	2,041	2,678	3,193 22.96	3,708 26.66	3,741 30.36																								
157	56	156.66	144,187	19.8	**26.4**	794	1,455	2,116	2,776	3,310 22.96	3,806 26.66																									
159	57	159.46	149,382	19.4	**25.9**	823	1,507	2,192	2,876	3,429 22.96	3,868 26.66																									
162	58	162.26	154,670	19.1	**25.5**	852	1,561	2,269	2,842 18.38	3,414 22.08	3,944 25.78																									
171	61	170.65	171,082	18.2	**24.2**	942	1,726	2,510	3,144 18.38	3,777 22.08	4,140 25.78																									
179	64	179.04	188,318	17.3	**23.1**	1,037	1,900	2,763	3,460 18.38	4,157 22.08	4,350 25.78																									
187	67	187.43	206,381	16.5	**22.1**	1,137	2,083	3,028	3,792 18.38	4,556 22.08	4,561 25.78																									
193	69	193.03	218,898	16.1	**21.4**	1,206	2,209	3,212	4,022 18.38	4,684 22.08																										
201	72	201.42	238,340	15.4	**20.5**	1,313	2,405	3,497	4,380 18.38	4,885 22.08																										
210	75	209.81	258,609	14.8	**19.7**	1,424	2,610	3,795	4,752 18.38	5,094 22.08																										
218	78	218.20	279,712	14.2	**18.9**	1,541	2,823	3,858 13.79	4,893 17.50	5,286 21.20																										
227	81	226.59	301,642	13.7	**18.2**	1,662	3,044	4,160 13.79	5,277 17.50	5,489 21.20																										
235	84	234.99	324,399	13.2	**17.6**	1,787	3,274	4,474 13.79	5,675 17.50	5,709 21.20																										
243	87	243.38	347,984	12.7	**17.0**	1,917	3,512	4,800 13.79	5,915 17.50																											

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