

AQUASTORE® TANK CAPACITY CHART

FOR WATER TANKS WITH CONCRETE FLOORS (English Units)



US Units															
Model Diameter	Sheets	Exact Diameter (feet)	Capacity Per Foot (gallons)	Maximum Water Depth (±0.1 ft)											
				AWWA										AISC Zones 0,1	
				Zones = 0,1		Zone = 2A		Zone = 2B		Zone = 3		Zone = 4			
				Design (feet)	Max. Capacity	Design (feet)	Max. Capacity	Design (feet)	Max. Capacity	Design (feet)	Max. Capacity	Design (feet)	Max. Capacity	Design (feet)	Max. Capacity
11	4	11.19	735	65.1	47,849	46.4	34104	40.2	29,547	32.9	24,182	28.4	20,874	65.1	47,849
14	5	13.98	1,149	138.4	159,046	114.1	131101	98.8	113,521	80.7	92,724	69.9	80,315	138.4	159,022
17	6	16.78	1,655	138.4	229,087	114.2	189001	99.0	163,845	80.9	133,890	70.2	116,181	138.4	229,052
20	7	19.58	2,252	138.4	311,724	114.4	257629	99.3	223,624	81.1	182,637	70.5	158,766	138.4	311,677
22	8	22.37	2,942	138.4	407,235	114.6	337153	99.5	292,729	81.5	239,773	70.8	208,294	138.4	407,173
25	9	25.17	3,724	138.4	515,480	114.9	427888	99.8	371,655	81.8	304,623	71.1	264,776	138.4	515,402
28	10	27.97	4,597	138.4	636,321	110.9	509807	96.5	443,611	79.3	364,542	69.1	317,653	138.4	636,225
31	11	30.77	5,563	134.6	748,780	106.7	593572	92.7	515,690	76.5	425,570	66.5	369,940	138.4	769,919
34	12	33.56	6,620	123.2	815,584	102.9	681198	89.6	593,152	74.1	490,542	64.6	427,652	138.4	916,208
36	13	36.36	7,770	113.9	885,003	99.6	773892	86.9	675,213	71.9	558,663	62.7	487,179	133.2	1,034,964
39	14	39.16	9,011	105.7	952,463	96.6	870463	84.4	760,528	70.0	630,770	61.2	551,473	123.9	1,116,463
42	15	41.96	10,345	98.7	1,021,052	93.9	971396	82.3	851,394	68.4	707,598	60.0	620,700	115.6	1,195,882
45	16	44.75	11,770	92.5	1,088,725	91.6	1078132	80.4	946,308	67.0	788,590	58.8	692,076	108.4	1,275,868
48	17	47.55	13,287	87.1	1,157,298	87.1	1157298	78.6	1,044,358	65.8	874,285	57.8	767,989	102.0	1,355,274
50	18	50.35	14,896	82.2	1,224,451	82.2	1224451	77.2	1,149,971	64.8	965,261	57.0	849,072	96.4	1,435,974
53	19	53.15	16,598	77.9	1,292,984	77.9	1292984	75.8	1,258,626	63.8	1,058,952	56.2	932,808	91.3	1,515,397
56	20	55.95	18,391	74.0	1,360,934	74.0	1360934	74.0	1,360,934	62.8	1,154,955	55.6	1,022,540	86.7	1,594,500
59	21	58.74	20,276	70.5	1,429,458	70.5	1429458	70.5	1,429,458	62.1	1,259,140	55.0	1,115,180	82.6	1,674,798
62	22	61.54	22,253	67.3	1,497,627	67.3	1497627	67.3	1,497,627	61.5	1,368,560	54.5	1,212,789	78.8	1,753,536
64	23	64.34	24,322	64.3	1,563,905	64.3	1563905	64.3	1,563,905	60.9	1,481,210	54.2	1,318,252	75.4	1,833,879
67	24	67.13	26,483	61.7	1,634,001	61.7	1634001	61.7	1,634,001	60.6	1,604,870	53.9	1,427,434	72.3	1,914,721
70	25	69.93	28,736	59.2	1,701,171	59.2	1701171	59.2	1,701,171	59.2	1,701,171	53.6	1,540,250	69.4	1,994,278
73	26	72.73	31,081	56.9	1,768,509	56.9	1768509	56.9	1,768,509	56.9	1,768,509	53.3	1,656,617	66.7	2,073,103
76	27	75.53	33,518	54.8	1,836,786	54.8	1836786	54.8	1,836,786	54.8	1,836,786	52.9	1,773,102	64.2	2,151,856
78	28	78.32	36,046	52.8	1,903,229	52.8	1903229	52.8	1,903,229	52.8	1,903,229	52.4	1,888,810	61.9	2,231,247
81	29	81.12	38,667	51.0	1,972,017	51.0	1972017	51.0	1,972,017	51.0	1,972,017	51.0	1,972,017	59.8	2,312,287
84	30	83.92	41,380	49.3	2,040,034	49.3	2040034	49.3	2,040,034	49.3	2,040,034	49.3	2,040,034	57.8	2,391,764
87	31	86.72	44,184	47.7	2,107,577	47.7	2107577	47.7	2,107,577	47.7	2,107,577	47.7	2,107,577	55.9	2,469,886
90	32	89.51	47,081	46.2	2,175,142	46.2	2175142	46.2	2,175,142	46.2	2,175,142	46.2	2,175,142	54.2	2,551,790
92	33	92.31	50,070	44.8	2,243,136	44.8	2243136	44.8	2,243,136	44.8	2,243,136	44.8	2,243,136	52.5	2,628,675
95	34	95.11	53,150	43.5	2,312,025	43.5	2312025	43.5	2,312,025	43.5	2,312,025	43.5	2,312,025	51.0	2,710,650
98	35	97.91	56,323	42.3	2,382,463	42.3	2382463	42.3	2,382,463	42.3	2,382,463	42.3	2,382,463	49.5	2,787,989
101	36	100.70	59,587	41.1	2,449,026	41.1	2449026	41.1	2,449,026	41.1	2,449,026	41.1	2,449,026	48.2	2,872,093
104	37	103.50	62,944	40.0	2,517,760	40.0	2517760	40.0	2,517,760	40.0	2,517,760	40.0	2,517,760	46.9	2,952,074
106	38	106.30	66,392	38.9	2,582,649	38.9	2582649	38.9	2,582,649	38.9	2,582,649	38.9	2,582,649	45.6	3,027,475
109	39	109.10	69,932	37.9	2,650,423	37.9	2650423	37.9	2,650,423	37.9	2,650,423	37.9	2,650,423	44.4	3,104,981
112	40	111.90	73,565	37.0	2,721,905	37.0	2721905	37.0	2,721,905	37.0	2,721,905	37.0	2,721,905	43.3	3,185,365
115	41	114.69	77,289	36.1	2,790,133	36.1	2790133	36.1	2,790,133	36.1	2,790,133	36.1	2,790,133	42.3	3,269,325
117	42	117.49	81,105	35.2	2,854,896	35.2	2854896	35.2	2,854,896	35.2	2,854,896	35.2	2,854,896	41.3	3,349,637
120	43	120.29	85,013	34.4	2,924,447	34.4	2924447	34.4	2,924,447	34.4	2,924,447	34.4	2,924,447	40.3	3,426,024
123	44	123.09	89,013	33.6	2,990,837	33.6	2990837	33.6	2,990,837	33.6	2,990,837	33.6	2,990,837	39.4	3,507,112
126	45	125.89	93,105	32.9	3,063,155	32.9	3063155	32.9	3,063,155	32.9	3,063,155	32.9	3,063,155	38.5	3,584,543
129	46	128.68	97,289	32.1	3,122,977	32.1	3122977	32.1	3,122,977	32.1	3,122,977	32.1	3,122,977	37.7	3,667,795
131	47	131.48	101,565	31.5	3,199,298	31.5	3199298	31.5	3,199,298	31.5	3,199,298	31.5	3,199,298	36.9	3,747,749
134	48	134.27	105,933	30.8	3,262,736	30.8	3262736	30.8	3,262,736	30.8	3,262,736	30.8	3,262,736	36.1	3,824,181
137	49	137.07	110,393	30.2	3,333,869	30.2	3333869	30.2	3,333,869	30.2	3,333,869	30.2	3,333,869	35.4	3,907,912
140	50	139.87	114,945	29.6	3,402,372	29.6	3402372	29.6	3,402,372	29.6	3,402,372	29.6	3,402,372	34.7	3,988,592
143	51	142.67	119,589	29.0	3,468,081	29.0	3468081	29.0	3,468,081	29.0	3,468,081	29.0	3,468,081	34.0	4,066,026
145	52	145.46	124,324	28.4	3,530,802	28.4	3530802	28.4	3,530,802	28.4	3,530,802	28.4	3,530,802	33.3	4,139,989
148	53	148.26	129,152	27.9	3,603,341	27.9	3603341	27.9	3,603,341	27.9	3,603,341	27.9	3,603,341	32.7	4,223,270
151	54	151.06	134,072	27.4	3,673,573	27.4	3673573	27.4	3,673,573	27.4	3,673,573	27.4	3,673,573	32.1	4,303,711
154	55	153.86	139,083	26.9	3,741,333	26.9	3741333	26.9	3,741,333	26.9	3,741,333	26.9	3,741,333	31.5	4,381,115
157	56	156.66	144,187	26.4	3,806,537	26.4	3806537	26.4	3,806,537	26.4	3,806,537	26.4	3,806,537	30.9	4,455,378
159	57	159.46	149,382	25.9	3,868,994	25.9	3868994	25.9	3,868,994	25.9	3,868,994	25.9	3,868,994	30.4	4,541,213
162	58	162.26	154,670	25.5	3,944,085	25.5	3944085	25.5	3,944,085	25.5	3,944,085	25.5	3,944,085	29.9	4,624,633
171	61	170.65	171,082	24.2	4,140,182	24.2	4140182	24.2	4,140,182	24.2	4,140,182	24.2	4,140,182	28.4	4,858,726
179	64	179.04	188,318	23.1	4,350,144	23.1	4350144	23.1	4,350,144	23.1	4,350,144	23.1	4,350,144	27.1	5,103,415
187	67	187.43	206,381	22.1	4,561,020	22.1	4561020	22.1	4,561,020	22.1	4,561,020	22.1	4,561,020	25.9	5,345,268
193	69	193.03	218,898	21.4	4,684,410	21.4	4684410	21.4	4,684,410	21.4	4,684,410	21.4	4,684,410	25.1	5,494,331
201	72	201.42	238,340	20.5	4,885,967	20.5	4885967	20.5	4,885,967	20.5	4,885,967	20.5	4,885,967	24.1	5,743,990
210	75	209.81	258,609	19.7	5,094,599	19.7	5094599	19.7	5,094,599	19.7	5,094,599	19.7	5,094,599	23.1	5,973,870
218	78	218.20	279,712	18.9	5,286,549	18.9	5286549	18.9	5,286,549	18.9	5,286,549	18.9	5,286,549	22.2	6,209,597
227	81	226.59	301,642	18.2	5,489,878	18.2	5489878	18.2	5,489,878	18.2	5,489,878	18.2	5,489,878	21.4	6,455,131
235	84	234.99	324,399	17.6	5,709,426	17.6	5709426	17.6	5,709,426	17.6	5,709,426	17.6	5,709,426	20.6	6,682,624
243	87	243.38	347,984	17.0	5,915,734	17.0	5915734	17.0	5,915,734	17.0	5,915,734	17.0	5,915,734	19.9	6,924,889

Notes for use with US Gallons:

- 100 mph wind speed per AWWA
- 25 psf snow load
- Seismic zone 0, 1, 2A, 2B, 3, 4
- Importance Factor, I = 1.25
- Site Amplification Factor, S = 1.5
- Specific gravity 1.0 @ STP
- Structure height limitations are also dependent upon local soil conditions and construction techniques
- AWWA Designates AWWA D103-97; AISC Designates ANSI/AISC 360-05 Specification for Structural Steel Buildings, ASD
- Assumes a maximum material thickness of 0.5 inches HSLA.

Conversions:
 Gallons => Cubic feet Gallons => Cubic meters
 Multiply gallons by 0.13368 Multiply gallons by 0.003785

