

DIMENSIONS AND CAPACITIES

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CYLINDRICAL TANKS

Diameter		Area square feet	Gallons per in. of depth	Gallons per foot of depth	Diameter		Area square feet	Gallons per in. of depth	Gallons per foot of depth	Diameter		Area square feet	Gallons per inch of depth	Gallons per foot of depth
ft.	in.				ft.	in.				ft.	in.			
1	0	.785	.490	5.87	4	4	14.748	9.194	110.32	11	0	95.03	59.242	710.90
1	1	.922	.575	6.89	4	5	15.321	9.551	114.61	11	3	99.40	61.965	743.58
1	2	1.069	.666	8.00	4	6	15.90	9.914	118.87	11	6	103.87	64.750	776.99
1	3	1.227	.765	9.18	4	7	16.50	10.285	123.42	11	9	108.43	67.595	811.14
1	4	1.396	.870	10.44	4	8	17.10	10.662	127.95	12	0	113.10	70.502	846.03
1	5	1.576	.983	11.79	4	9	17.72	11.047	132.56	12	3	117.86	73.471	881.65
1	6	1.767	1.102	13.22	4	10	18.35	11.438	137.25	12	6	122.72	76.500	918.00
1	7	1.969	1.227	14.73	4	11	18.99	11.835	142.02	12	9	127.68	79.591	955.09
1	8	2.182	1.360	16.32	5	0	19.63	12.240	146.88	13	0	132.73	82.742	992.91
1	9	2.405	1.499	17.99	5	1	20.29	12.651	151.82	13	3	137.89	85.955	1031.5
1	10	2.640	1.646	19.75	5	2	20.97	13.070	156.83	13	6	143.14	89.230	1070.8
1	11	2.885	1.799	21.58	5	3	21.65	13.495	161.93	13	9	148.49	92.565	1110.8
2	0	3.142	1.958	23.50	5	4	22.34	13.926	167.12	14	0	153.94	95.961	1151.5
2	1	3.409	2.125	25.50	5	5	23.04	14.365	172.38	14	3	159.48	99.419	1193.0
2	2	3.687	2.298	27.58	5	6	23.76	14.810	177.72	14	6	165.13	102.938	1235.3
2	3	3.976	2.479	29.74	5	7	24.48	15.263	183.15	14	9	170.87	106.519	1278.2
2	4	4.276	2.666	31.99	5	8	25.22	15.722	188.66	15	0	176.71	110.160	1321.9
2	5	4.587	2.859	34.31	5	9	25.97	16.187	194.25	15	3	182.65	113.863	1366.4
2	6	4.909	3.060	36.72	5	10	26.73	16.660	199.92	15	6	188.69	117.626	1411.5
2	7	5.241	3.267	39.21	5	11	27.49	17.139	205.67	15	9	194.83	121.451	1457.4
2	8	5.585	3.482	41.78	6	0	28.27	17.626	211.51	16	0	201.06	125.338	1504.1
2	9	5.940	3.703	44.43	6	3	30.68	19.125	229.50	16	3	207.39	129.285	1551.4
2	10	6.305	3.930	47.16	6	6	33.18	20.851	248.23	16	6	213.82	133.294	1599.5
2	11	6.681	4.165	49.98	6	9	35.78	22.307	267.69	16	9	220.35	137.363	1648.4
3	0	7.069	4.406	52.88	7	0	38.48	23.990	287.88	17	0	226.98	141.494	1697.9
3	1	7.467	4.655	55.86	7	3	41.28	25.735	308.81	17	3	233.71	145.687	1748.2
3	2	7.876	4.910	58.92	7	6	44.18	27.540	330.48	17	6	240.53	149.940	1799.3
3	3	8.296	5.171	62.06	7	9	47.17	29.407	352.88	17	9	247.45	154.255	1851.1
3	4	8.727	5.440	65.28	8	0	50.27	31.334	376.01	18	0	254.47	158.630	1903.6
3	5	9.168	5.715	68.58	8	3	53.46	33.323	399.88	18	3	261.59	163.067	1956.8
3	6	9.621	5.998	71.97	8	6	56.75	35.374	424.48	18	6	268.80	167.566	2010.8
3	7	10.085	6.287	75.44	8	9	60.13	37.485	449.82	18	9	276.12	172.125	2065.5
3	8	10.559	6.582	78.99	9	0	63.62	39.658	475.89	19	0	283.53	176.746	2120.9
3	9	11.045	6.885	82.62	9	3	67.20	41.891	502.70	19	3	291.04	181.427	2177.1
3	10	11.541	7.194	86.33	9	6	70.88	44.186	530.24	19	6	298.65	186.170	2234.0
3	11	12.048	7.511	90.13	9	9	74.66	46.543	558.51	19	9	306.35	190.975	2291.7
4	0	12.566	7.833	94.00	10	0	78.54	48.960	587.52	20	0	314.16	195.840	2350.1
4	1	13.095	8.163	97.96	10	3	82.52	51.439	617.26	20	3	322.06	200.76	2409.2
4	2	13.635	8.500	102.00	10	6	86.59	53.978	647.74	20	6	330.06	205.76	2469.1
4	3	14.186	8.843	106.12	10	9	90.76	56.597	678.95	20	9	338.16	210.80	2529.6

*EXAMPLE: 20,000 GALLONS REQUIRED - 12' DIAMETER - 70.502 GALLONS/INCH
 $20,000 \div 70.502 = 283.7$ INCHES OF STRAIGHT SIDE

RECTANGULAR TANKS

APPROXIMATE NUMBER OF U.S. GALLONS IN RECTANGULAR TANKS FOR ONE FOOT IN DEPTH

Width of Tank	Length of Tank																							
	1'	1'6"	2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	8'6"	9'	9'6"	10'	10'6"	11'	11'6"	12'	
1'	7	10	1418	22	25	29	33	37	41	44	48	52	55	59	63	67	71	74	78					
1'6"		16	22	28	33	39	44	50	56	61	67	72	78	83	89	95	100	106	111	117				
2'			30	37	45	52	60	67	75	82	90	97	105	112	120	127	135	142	150	157	165	172	180	
2'6"				47	56	65	75	84	94	103	113	122	131	140	150	159	168	178	187	196	206	215	224	
3'					67	79	90	101	112	123	135	146	157	168	180	191	203	213	224	236	247	258	269	
3'6"						92	105	118	131	144	157	170	183	196	209	223	236	249	262	275	288	301	314	
4'							120	135	150	165	180	194	209	224	239	254	269	284	299	314	329	344	359	
4'6"								152	168	185	202	218	236	252	269	286	303	320	337	353	370	387	404	
5'									187	206	224	243	262	281	299	317	337	355	374	393	411	430	449	
5'6"										226	247	267	288	309	329	350	370	391	411	432	453	473	494	
6'											269	292	314	337	359	382	404	426	449	471	494	516	539	
6'6"												316	340	365	389	414	438	462	486	511	535	559	583	
7'													367	393	419	445	471	497	524	550	576	602	628	
7'6"														421	449	477	505	533	561	589	617	645	673	
8'															479	509	539	569	598	628	658	688	718	
8'6"																540	572	604	636	668	699	731	763	
9'																	605	640	673	707	741	774	808	
9'6"																		675	711	746	782	817	853	
10'																			745	786	823	860	898	
10'6"																				825	864	903	942	
11'																					905	946	987	
11'6"																						989	1032	
12'																							1077	

7.48 GAL./1 CU. FT.

1 GAL. H₂O = 8.3453 #

.0034 x D² x H (ALL IN INCHES) = GAL. IN A CYLINDER

AREAS: CIRCLE = 3.14 x R² CYLINDER = 3.14 x D x H

R = 1/2 OF DIAMETER

D = DIAMETER

H = HEIGHT