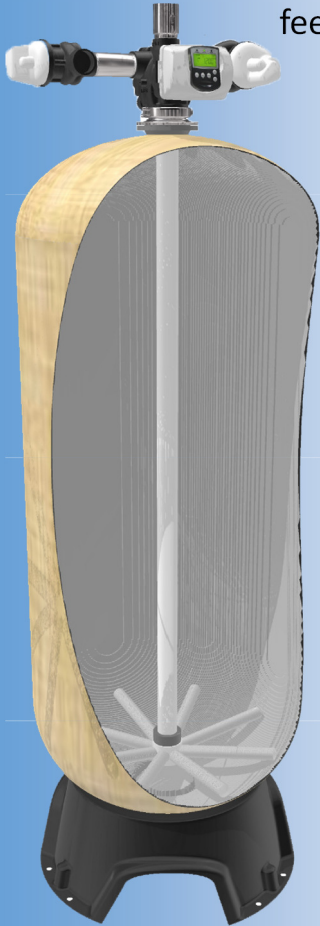


Mineral Tank Capacities

Mineral tank capacities are often misunderstood and poorly applied. The charts below will help you to better understand proper tank sizing and system design. Improper tank sizing and media loading can result in a loss of performance, media, and can cause problems that are difficult to diagnose. Media expansion during backwash, water temperature, and system application all play a critical role in properly designing a system that will perform to your customers needs. Please feel free to contact your IWP professional for further assistance.



Mineral tank media capacities should not include the domes in most applications. Many companies ignore this in order to make a system seem bigger than it really is. This inevitably leads to media loss during backwashing, diminished capacities, inadequate under-bedding and possible catastrophic hub and lateral failures.

Tank Size	Softener Media Mount (Common)	≈Total Tank Volume ft ³	≈Dome Volume ft ³	≈ft ³ w/50% Freeboard	≈ft ² Bed area	≈ $\frac{1}{8} \times \frac{1}{16}$ Gravel
6x13		0.15	.02	.07	.20	5 lbs.
6x18		.24	.02	.13	.20	5 lbs.
6x35		.51	.02	.31	.20	5 lbs.
7x24		.50	.03	.29	.27	5 lbs.
7x35		.70	.03	.43	.27	5 lbs.
7x44		.90	.03	.56	.27	5 lbs.
8x18		.44	.05	.23	.34	10 lbs.
8x24		.60	.05	.34	.34	10 lbs.
8x30		.79	.05	.46	.34	10 lbs.
8x35		.88	.05	.52	.34	10 lbs.
8x40		1.0	.05	.6	.34	10 lbs.
8x44	.75	1.2	.05	.74	.34	10 lbs.
9x18		.52	.07	.25	.44	10 lbs.
9x35		1.1	.07	.64	.44	10 lbs.
9x40		1.3	.07	.78	.44	10 lbs.
9x42		1.4	.07	.84	.44	10 lbs.
9x48	1	1.6	.07	.98	.44	10 lbs.
10x18		.65	.09	.31	.54	15 lbs.
10x19		.70	.09	.35	.54	15 lbs.
10x30		1.1	.09	.62	.54	15 lbs.
10x35		1.4	.09	.82	.54	15 lbs.
10x40		1.5	.09	.88	.54	15 lbs.
10x44		1.8	.09	1.1	.54	15 lbs.
10x47	1.25	2.0	.09	1.2	.54	15 lbs.
10x54	1.5	2.2	.09	1.35	.54	15 lbs.
10x65		2.5	.09	1.6	.54	15 lbs.
12x29		1.9	.13	1.1	.78	20 lbs.
12x35	1.25	2.3	.13	1.3	.78	20 lbs.
12x42	1.75	2.6	.13	1.6	.78	20 lbs.

Information provided are estimates only and will vary widely based on tank manufacturer, material of construction and other factors.

2101 E. Francis Street, Ontario, CA USA 91761 • 909-939-8008 • www.ImpactWaterProducts.com

Data herein is provided as a courtesy and is subject to change without notice.



Mineral Tank Capacities

Tank Size	Softener Media ft ³ (Common)	≈Total Tank Volume ft ³	≈Dome Volume ft ³	≈ft ³ w/50% Freeboard	≈ft ² Bed area	≈½X¼ Gravel	≈¼X⅛ Gravel	≈⅛X⅛ Gravel
12x48		2.8	.13	1.7	.78	0 lbs.	0 lbs.	20 lbs.
12x52	2	3.1	.13	1.9	.78	0 lbs.	0 lbs.	20 lbs.
13x54	2.5	3.8	.19	2.3	.92	0 lbs.	0 lbs.	25 lbs.
13x65		4.4	.19	2.7	.92	0 lbs.	0 lbs.	25 lbs.
14x47	2.5	3.7	.23	2.2	1.06	0 lbs.	0 lbs.	30 lbs.
14x54		4.4	.23	2.6	1.06	0 lbs.	0 lbs.	30 lbs.
14x65	3	5.1	.23	3.1	1.06	0 lbs.	0 lbs.	30 lbs.
16x33		3.0	.36	1.7	1.39	0 lbs.	0 lbs.	40 lbs.
16x53	3	5.3	.36	3.1	1.39	0 lbs.	0 lbs.	40 lbs.
16x65	4	6.8	.36	4.0	1.39	0 lbs.	0 lbs.	40 lbs.
18x36		4.9	.49	2.7	1.77	0 lbs.	0 lbs.	60 lbs.
18x65	5	8.6	.49	5.1	1.77	0 lbs.	0 lbs.	60 lbs.
21x36		6.1	.83	3.0	2.40	0 lbs.	0 lbs.	100 lbs.
21x62	6	11	.83	6.3	2.40	0 lbs.	0 lbs.	100 lbs.
24x38	4	8.2	1.2	3.9	3.14	0 lbs.	100 lbs.	50 lbs.
24x50	6	11	1.2	5.8	3.14	0 lbs.	100 lbs.	50 lbs.
24x60	8	13	1.2	7.1	3.14	0 lbs.	100 lbs.	50 lbs.
24x72	9	16	1.2	9.1	3.14	0 lbs.	100 lbs.	50 lbs.
30x72	14	25	2.4	14	4.90	0 lbs.	200 lbs.	100 lbs.
36x57	12	27	4.4	12	7.06	0 lbs.	400 lbs.	100 lbs.
36x72	18	35	4.4	18	7.06	0 lbs.	400 lbs.	100 lbs.
42x72	25	46	7	25	9.26	0 lbs.	500 lbs.	200 lbs.
48x72	30	65	10	30	12.6	0 lbs.	800 lbs.	200 lbs.
63x67	25	84	23	25	21.6	1700 lbs.	300 lbs.	300 lbs.
63x86	50	120	23	50	21.6	1700 lbs.	300 lbs.	300 lbs.
63x116		167	23	81	21.6	1700 lbs.	300 lbs.	300 lbs.
63x144		214	23	113	21.6	1700 lbs.	300 lbs.	300 lbs.

Information provided are estimates only and will vary widely based on tank manufacturer, material of construction and other factors.

The domed areas of the tanks area should not be used in the media volume calculation.

