

Mixed Bed Resin Capacities

Influent Conductivity micromhos/cm	Approx. ppm as ion (NaCl)	Approx. ppm as CaCO ₃	RESINTECH MBD-15		RESINTECH MBD-10 OR MBD-20	
			Gals/cu.ft. to 1 megohm endpoint	Gals/cu.ft. to total exhaustion	Gals/cu.ft. to 1 megohm endpoint	Gals/cu.ft. to total exhaustion
1	0.5	0.4	513,000	568,575	666,900	743,850
2	1	0.8	256,500	284,288	333,450	371,925
3	1.5	1.2	171,000	189,525	222,300	247,950
4	2	1.6	128,250	142,144	166,725	185,963
5	2.5	2	102,600	113,715	133,380	148,770
10	5	4	51,300	56,858	66,690	74,385
15	7.5	6	34,200	37,905	44,460	49,590
20	10	8	25,650	28,429	33,345	37,193
25	12.5	10	20,520	22,743	26,676	29,754
30	15	12	17,100	18,953	22,230	24,795
35	17.5	14	14,657	16,245	19,054	21,253
40	20	16	12,825	14,214	16,673	18,596
45	22.5	18	11,400	12,635	14,820	16,530
50	25	20	10,260	11,372	13,338	14,877
60	30	24	8,550	9,476	11,115	12,398
70	35	28	7,329	8,123	9,527	10,626
80	40	32	6,413	7,107	8,336	9,298
90	45	36	5,700	6,318	7,410	8,265
100	50	40	5,130	5,686	6,669	7,439
120	60	48	4,275	4,738	5,558	6,199
140	70	56	3,664	4,061	4,764	5,313
160	80	64	3,206	3,554	4,168	4,649
180	90	72	2,850	3,159	3,705	4,133
200	100	80	2,565	2,843	3,335	3,719
225	112.5	90	2,280	2,527	2,964	3,306
250	125	100	2,052	2,274	2,668	2,975
275	137.5	110	1,865	2,068	2,425	2,705
300	150	120	1,710	1,895	2,223	2,480
325	162.5	130	1,578	1,749	2,052	2,289
350	175	140	1,465	1,625	1,905	2,125
375	187.5	150	1,368	1,516	1,778	1,984
400	200	160	1,283	1,421	1,667	1,860
450	225	180	1,140	1,264	1,482	1,653
500	250	200	1,026	1,137	1,334	1,488
600	300	240	855	948	1,112	1,240
700	350	280	733	812	953	1,063
800	400	320	641	711	834	930
900	450	360	570	632	741	827
1000	500	400	513	569	667	744

These capacity numbers are for new resin. For regenerable applications, it is recommended that a dosage of 12 lbs per cubic foot of hydrochloric acid be applied to the cation resin portion and 13 lbs of sodium hydroxide per cubic foot be applied to the anion portion of the mixed bed resin to get about 80% of the as-new resin capacity and provide self-neutralizing waste.

Total Capacity = 9.6 kilograins per cubic foot

Capacity to 1 megohm endpoint = 7.2 kilograins per cubic foot

Capacity to 15 megohm endpoint = 3.6 to 5.0 kilograins per cubic foot

