

IMA-65 Specialty Media

is a revolutionary silica sand based filtration media designed for the removal of iron and manganese without the use of potassium permanganate. The unique micro porous structure of IMA-65 efficiently removes dissolved iron to as low as 0.005 ppm and manganese to 0.001 ppm. After initial activation, the IMA-65 acts as an oxidation catalyst with immediate oxidation and filtration of the insoluble precipitates. The media has been used extensively in a wide variety of applications in Japan for over 30 years. IMA-65 has been tested and certified by the Water Quality Association in accordance with NSF/ANSI 61.



Advantages

- Eliminates Potassium Permanganate - Operates with continuous injection of sodium hypochlorite at low residual levels (0.1 to 0.3 ppm).
- Wide pH range - Stable and satisfactory performance at pH 5.8 to 8.6.
- High Flow Rates - IMA-65 can operate at linear filtration velocities up to twice that of conventional media with a corresponding reduction in capital equipment costs.
- Higher Operating Temperatures - Maximum operating temperature of 113 °F (45 °C).
- Long Life - IMA-65 is not consumed in the process, providing considerable advantages over other processes or media.
- Regeneration Not Required - After initial activation, only sodium hypochlorite feed is required.
- System Compatibility - Physical properties are similar to that of competitive media, allowing conversion to IMA-65 without major hardware modifications.
- Arsenic Removal - IMA-65 has been shown to be effective in the removal of arsenic associated with iron-containing influent. If necessary, ferric chloride can be introduced to treat waters with low influent iron levels or to enhance removal when treating waters with high levels of arsenic.

IMA-65 Specialty Media Specifications

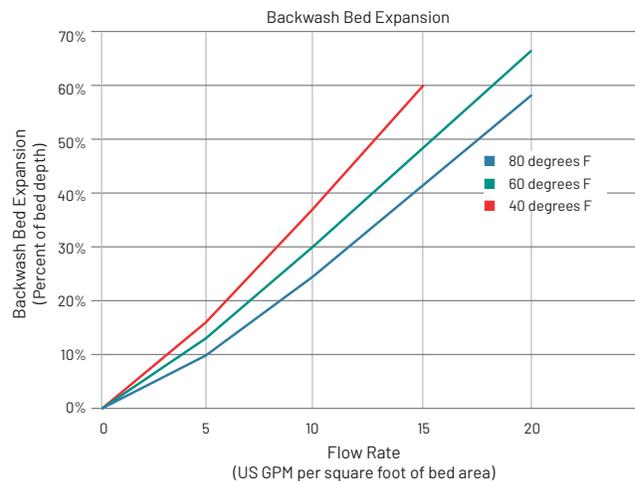
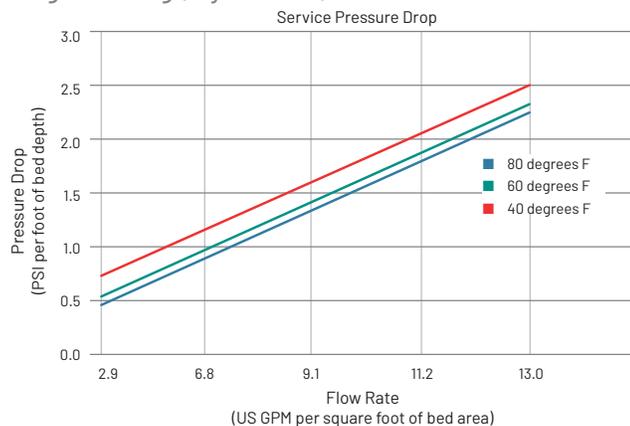
SPECIFICATIONS IMA-65 SPECIALTY MEDIA			
Physical Properties		Operating Conditions	
Color	Brown to black	pH range	5.8 - 8.6
Bulk density	92.0 lbs./cu. ft.	Maximum water temp	113 °F (45 °C)
Specific gravity	2.7	Minimum bed depth	24 inches (600 mm)
Effective size	0.48	Freeboard	40% minimum
Uniformity coefficient	<1.8	Service flow rate	2 - 12 gpm per sq. ft.
Mesh size	20 - 45	Backwash flow rate	10 - 20 gpm per sq. ft.
Annual attrition	1-5%	Backwash expansion	15 - 50%

SPECIFICATIONS | INDUSTRIAL | IMA-65 SPECIALTY MEDIA

Model	Number of Tanks in System	Standard Flow Range				Filtration Surface Area (total sq ft)	Backwash Flow Rate (per tank)		Media Requirements (cubic feet per tank)			Maximum Pressure	Inlet/Outlet Pipe Size	Backwash Line Pipe Size
		Minimum		Maximum			gpm	m ³ /hr	Gravel 1/2" - 3/4"	Garnet 1.45 mm	IMA-65			
		gpm	m ³ /hr	gpm	m ³ /hr									
IMA-1460-1A	1	5	1	7	2	1.07	16	4	1	1	4	100 psi	2"	2"
IMA-1860-1A	1	9	2	12	3	1.77	27	6	1	1	6	100 psi	2"	2"
IMA-1460-2A	2	11	3	15	3	2.14	16	4	1	1	4	100 psi	2"	2"
IMA-2460-1A	1	16	4	22	5	3.15	47	11	2	2	10	100 psi	2"	2"
IMA-1460-3A	3	16	4	22	5	3.21	16	4	1	1	4	100 psi	2"	2"
IMA-1860-2A	2	18	4	24	5	3.54	27	6	1	1	6	100 psi	2"	2"
IMA-3060-1A	1	25	6	34	8	4.91	74	17	3	3	15	100 psi	3"	3"
IMA-1860-3A	3	27	6	37	8	5.31	27	6	1	1	6	100 psi	3"	2"
IMA-2460-2A	2	32	7	44	10	6.30	47	11	2	2	10	100 psi	3"	2"
IMA-3660-1A	1	35	8	49	11	7.10	107	24	4	4	21	100 psi	3"	3"
IMA-2460-3A	3	48	11	66	15	9.45	47	11	2	2	10	100 psi	3"	2"
IMA-3060-2A	2	50	11	68	15	9.82	74	17	3	3	15	100 psi	4"	2"
IMA-4860-1A	1	63	14	88	20	12.60	189	43	7	7	38	100 psi	4"	4"
IMA-3660-2A	2	70	16	99	23	14.20	107	24	4	4	21	100 psi	4"	4"
IMA-3060-3A	3	75	17	103	23	14.73	74	17	3	3	15	100 psi	4"	2"
IMA-5460-1A	1	80	18	111	25	15.91	239	54	10	8	48	100 psi	4"	4"
IMA-3660-3A	3	105	24	148	34	21.30	107	24	4	4	21	100 psi	4"	4"
IMA-4860-2A	2	126	29	176	40	25.20	189	43	7	7	38	100 psi	6"	4"
IMA-5460-2A	2	160	36	222	50	31.82	239	54	10	8	48	100 psi	6"	4"
IMA-4860-3A	3	189	43	263	60	37.80	189	43	7	7	38	100 psi	6"	4"
IMA-5460-3A	3	240	55	334	76	47.73	239	54	10	8	48	100 psi	6"	4"
IMA-4860-4A	4	252	57	351	80	50.40	189	43	7	7	38	100 psi	8"	4"
IMA-4860-5A	5	315	72	439	100	63.00	189	43	7	7	38	100 psi	10"	4"
IMA-5460-4A	4	320	73	445	101	63.64	239	54	10	8	48	100 psi	8"	4"
IMA-4860-6A	6	378	86	527	120	75.60	189	43	7	7	38	100 psi	10"	4"
IMA-5460-5A	5	400	91	556	126	79.55	239	54	10	8	48	100 psi	10"	4"
IMA-5460-6A	6	480	109	668	152	95.46	239	54	10	8	48	100 psi	10"	4"

Other models and sizes are available.

Engineering (Hydraulic) Data



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