

489 AIO Series Chemical Free Filter

The AIO Chemical Free Iron filter is intended to be an effective and economical way to remove iron, manganese and hydrogen sulphide from water without the use of messy and dangerous chemicals or expensive pumps or an external venturi. The AIO valve uses a unique process to create an air bubble at the upper portion of the tank to oxidize any ferrous iron prior to being filtered by the media. It can also be used to remove low concentrations of dissolved hydrogen sulfide and manganese from water.

How does the AIO (Air Induction Oxidization) filter work?

This filter works by adding oxygen to the incoming water by passing it through a bubble of compressed air. The water is then passed through a special filter bed. The special media in the AIO and AIOM not only increases the pH of the water to enhance iron removal but also acts as a physical barrier to trap iron precipitate. As more water passes through this iron filter, the oxygen in the unit is used up, and the media gets loaded with iron. The regeneration process then begins in order to replenish the supply of oxygen, and to backwash the precipitated iron trapped in the media bed. The iron, manganese and hydrogen sulphide removal efficiency will be more effective with high pH water. The filter is fitted with an inlet check valve to prevent any air from flowing backwards out of the filter tank.

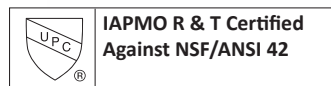
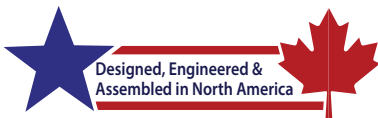


NOVO 489 HIFLOW SERIES AIO FILTERS

Part #	Model	Media Cu Ft	Flow Rate USGPM			Mineral Tank Size	Pipe Size Inches	Ship Weight Lbs
			Service	Peak	Backwash			
AIO CHEMICAL FREE IRON FILTER								
15055001	NVO489DFAIO-100	1.0	3	6	4	9 x 48	1"	145
15055002	NVO489DFAIO-150	1.5	4	10	5	10 x 54	1"	250
15055003	NVO489DFAIO-200*	2.00	5	12	7	12 x 52	1"	355
15055004	NVO489DFAIO-300*	3.00	6	14	10	14 x 65	1"	455
AIOM CHEMICAL FREE IRON FILTER Choose AIOM Models for low pH and/or high manganese applications.								
15055006	NVO489DFAIOM-100	1.0	3	6	4	9 x 48	1"	145
15055007	NVO489DFAIOM-150	1.5	4	10	5	10 x 54	1"	250
15055008	NVO489DFAIOM-200*	2.00	5	12	7	12 x 52	1"	355
15055009	NVO489DFAIOM-300*	3.00	6	14	10	14 x 65	1"	455
AIOC FILTER FOR HYDROGEN SULFIDE REDUCTION								
15055016	NVO489DFAIOC-100	1.0	3	6	4	9 x 48	1"	145
15055017	NVO489DFAIOC-150	1.5	4	10	5	10 x 54	1"	250
15055018	NVO489DFAIOC-200*	2.00	5	12	7	12 x 52	1"	355
15055019	NVO489DFAIOC-300*	3.00	6	14	10	14 x 65	1"	455
AIOB BIRM IRON FILTER								
15055011	NVO489DFAIOB-100	1.0	3	6	4	9 x 48	1"	145
15055012	NVO489DFAIOB-150	1.5	4	10	5	10 x 54	1"	250
15055013	NVO489DFAIOB-200*	2.00	5	12	7	12 x 52	1"	355
15055014	NVO489DFAIOB-300*	3.00	6	14	10	14 x 65	1"	455

*Units larger than 2.0 cu ft come unloaded.

Bed Type	Application Parameters			
	Iron (ppm)	Manganese (ppm)	Hydrogen Sulfide (ppm)	pH Range
AIO Chem Free	0.0 - 10.0	0.0	0.0 - 1.0	7.0 - 8.5
AIOM Chem Free	0.0 - 10.0	0.0 - 1.0	0.0 - 1.0	6.5 to 6.9
AIOC Hydrogen Sulfide	0.0	0.0	0.0 - 3.0	7.0 - 8.5
AIOB Birm	0.0 - 10.0	0.0	0.0	7.0 - 8.5



7 Year Warranty
Control Valve



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Pressure tank



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