



AIO SERIES CHEMICAL FREE IRON FILTER

The AIO Chemical Free Iron filter is intended to be an effective and economical way to remove iron 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 Oxidation) 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 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 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.

Part #	Model	Media Cu Ft	Flow Rate USGPM			Mineral Tank Size	Pipe Size Inches	Ship Weight Lbs
			Service	Peak	Backwash			
AIO (Air Induction Oxidizer) Chemical Free Iron Filter (Single Tank)								
15055001	AIO10	1.0	3	6	4	9 x 48	1"	120
15055002	AIO15	1.5	4	10	5	10 x 54	1"	164
15055003	AIO20	2.00	5	12	7	12 x 52	1"	207
15055004	AIO30	3.00	6	14	10	14 x 65	1"	330
AIOM Chemical Free Iron Filter (Single Tank)								
15055006	AIO10M	1.0	3	6	4	9 x 48	1"	120
15055007	AIO15M	1.5	4	10	5	10 x 54	1"	164
15055008	AIO20M	2.00	5	12	7	12 x 52	1"	207
15055009	AIO30M	3.00	6	14	10	14 x 65	1"	330
AIOB (Air Induction Oxidizer) Birm Iron Filter								
15055011	AIOB10	1.0	3	6	4	9 x 48	1"	79
15055012	AIOB15	1.5	4	10	5	10 x 54	1"	101
15055013	AIOB20	2.00	5	12	7	12 x 52	1"	121
15055014	AIOB30	3.00	6	14	10	14 x 65	1"	184

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