

# WaterGroup®

## WG AIO Chem 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 creates 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 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.

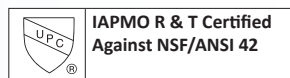
The filter is fitted with an inlet check valve to prevent any air from flowing backwards out of the filter tank.



**AIO (Air Induction Oxidizer) Chemical Free Iron Filter (Single Tank)**

Specifications	WG665AIO-075	WG665AIO-100	WG665FAIO-150	WG665AIOM-075	WG665AIOM-100	WG665AIOM-150
	2231	2232	2233	2235	2236	2237
Media Cu Ft	0.75	1.0	1.5	0.75	1.0	1.5
<b>Flow Rate USGPM</b>						
- Service	2	3	4	2	3	4
- Peak	4	6	10	4	6	10
- Backwash	3.5	4	5	3.5	4	5
Mineral Tank Size	8 x 44	9 x 48	10 x 54	8 x 44	9 x 48	10 x 54
Pipe Size Inches	3/4" and 1"	3/4" and 1"	3/4" and 1"	3/4" and 1"	3/4" and 1"	3/4" and 1"
Ship Weight Lbs	110	145	250	110	145	250

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



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