

Air Injection Oxidation (AIO) Filter

PRINCIPLE OF OPERATION:

AIO filters are an innovative solution for removal of Sulfur, iron, Hydrogen Sulfide Gas, Heavy Metals and other harmful contaminants. The AIO unit features a special control valve that allows an air pocket to form in the top of the filter tank. When well water containing iron and/or sulfur enters the filter tank and hits the air pocket the iron and sulfur is oxidized and precipitates so it can be filtered out of the water. An automatic daily backwash will remove accumulated solids, refresh the media bed and generate a fresh air pocket. AIO units should be installed after sediment or neutralizing filters and before a water softener and any other downstream treatment equipment.

THESE PREMIUM WATER FILTRATION SYSTEMS PROVIDE THE FOLLOWING:

- Eliminates the offensive "Rotten Egg" odor
- A single tank solution that replaces unsightly chlorine contact tank and aerator tank
- Eliminates unsanitary conditions and algae growth associated with aeration tanks
- No harsh chemicals or salt for regeneration
- Cleaner, safer, better tasting water throughout the home
- Reduce wear and tear and maintenance requirements on water appliances
- Better tasting water for drinking, cooking and ice cubes
- Several media types available to meet specific treatment goals



*Air injection oxidation
filter Valve*

Air inlet filter screen

Platinum Tank

Air Injection Oxidation (AIO) Filter

AIO CONTROL VALVE SPECIFICATIONS:

- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until net regeneration, volume remaining, current flow rate and total volume used (totalizer) and Tank In Service indication
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Optional double backwash feature offers optimum regeneration, cleaning ability and efficiency
- Adjustable cycle times with 6-cycle control delivers controlled backwash, slow rinse, second backwash, fast rinse, refill, and downflow service
- Coin Cell Lithium battery back-up with 8 hour carry over
- 12-volt output AC adaptor provides safe and easy installation
- Reliable and proven DC motor, seal spacer stack and piston

OPTIONAL SYSTEMS: SELECT BEST SYSTEM FOR YOUR APPLICATION

APPLICATION NOTES: AIO units should be installed after sediment or neutralizing filters, chlorination and de-chlorination and before a water softener and any other downstream treatment equipment. Do not use AIO units for treatment of water that contains bacteria or for water of unknown quality.

Application: For Iron removal utilizing Birm media

Part #	MEDIA (CF)	MEDIA TYPE	SUPPORT GRAVEL	TANK SIZE	OVERALL HEIGHT	BACKWASH FLOWRATE	Shipping Weight
004WS1WTWAIO10BIRM	1.5 (CF)	Birm	25 Lbs.	10x54	62"	5.0 GPM	83 Lbs.
014WS1WTWAIO13BIRM	2.0 (CF)	Birm	50 Lbs.	13x54	62"	8.0 GPM	132 Lbs.
014WS1WTWAIO14BIRM	2.5 (CF)	Birm	50 Lbs.	14x65	73"	10.0 GPM	167 Lbs.
014WS1WTWAIO16BIRM	3.0 (CF)	Birm	50 Lbs.	16x76	84"	15.0 GPM	183 Lbs.

Application: For Sulfur, Hydrogen Sulfide and Chloramines removal utilizing Calgon Centaur Coal Base Catalytic Activated Carbon

Part #	MEDIA (CF)	MEDIA TYPE	SUPPORT GRAVEL	TANK SIZE	OVERALL HEIGHT	BACKWASH FLOWRATE	Shipping Weight
004WS1WTWAIO10CEN	1.5 (CF)	Centaur	25 Lbs.	10x54	62"	5.0 GPM	83 Lbs.
014WS1WTWAIO13CEN	2.0 (CF)	Centaur	50 Lbs.	13x54	62"	8.0 GPM	132 Lbs.
014WS1WTWAIO14CEN	2.5 (CF)	Centaur	50 Lbs.	14x65	73"	10.0 GPM	167 Lbs.
014WS1WTWAIO16CEN	3.0 (CF)	Centaur	50 Lbs.	16x76	84"	15.0 GPM	183 Lbs.

Application: For Sulfur, Iron, Manganese, Color, Odor and Heavy Metals removal utilizing Katalox Light advanced filtration media

Part #	MEDIA (CF)	MEDIA TYPE	SUPPORT GRAVEL	TANK SIZE	OVERALL HEIGHT	BACKWASH FLOWRATE	Shipping Weight
004WS1WTWAIO10KAT	1.5 (CF)	Katalox	25 Lbs.	10x54	62"	5.0 GPM	83 Lbs.
014WS1WTWAIO13KAT	2.0 (CF)	Katalox	50 Lbs.	13x54	62"	8.0 GPM	132 Lbs.
014WS1WTWAIO14KAT	2.5 (CF)	Katalox	50 Lbs.	14x65	73"	10.0 GPM	167 Lbs.
014WS1WTWAIO16KAT	3.0 (CF)	Katalox	50 Lbs.	16x76	84"	15.0 GPM	183 Lbs.