

Glass Water Systems

Hills: (813) 832-9293 * National: 1-877-345-2770

Pyrolox™ Iron, Hydrogen Sulfide, and Manganese Removal



Pyrolox™ Units
Iron, Manganese,
Hydrogen Sulfide
Removal



Pyrolox™

A naturally mined ore, Pyrolox™ is a mineral form of manganese dioxide which has been used in water treatment for more than 75 years. Pyrolox™ is a granular filtration media for hydrogen sulfide, iron and manganese reduction. Pyrolox™ functions as a catalyst, but itself remains relatively unchanged.

Pyrolox™ works on a principle whereby the hydrogen sulfide, iron and manganese are oxidized and trapped on the media while simple back washing cleans the bed. No chemical regeneration is required, nothing is imparted into the drinking water and Pyrolox™ has a high capacity for low contaminant concentrations.

Pyrolox™ can be used in conjunction with aeration, chlorination, ozone or other pretreatment methods for difficult applications. Chlorine or other oxidants accelerate the catalytic reaction.

Because of its heavy weight, it is very important that Pyrolox™ filters are back washed properly to insure adequate bed expansion and continued service life.

Backwashing - As with any media, frequent and thorough back-washing is essential for long-term success with Pyrolox™. The specific frequency of regular back-washing is dependent on water quality and application rate. A daily backwash at the appropriate rate is required to remove precipitated contaminants from the filter bed.

Oxidant Feed - To maintain and further augment the longterm performance and removal capacity of the media, an oxidant feed of some type is strongly recommended. This will maintain the media and enhance removal capacity. Chlorine injection (options include chlorine, sodium hypochlorite, or calcium hypochlorite) immediately up stream of the filter feed is a simple way to meet this requirement. Other acceptable oxidants include air injection (oxygen is an oxidant), potassium permanganate, sodium permanganate, etc. Hydrogen peroxide is specifically prohibited for use as an oxidant.

Advantages:

- Effective reduction of iron, sulfur and manganese
- Durable material with long service life and low annual attrition of bed
- No chemical regeneration required only periodic back washing

Physical Properties:

- ColorBlack
- Bulk Density120 lbs./cu. ft.
- Mesh Size8 x 20
- Effective Size0.51 mm
- Uniform Coefficient1.7
- Specific Gravity3.8

Conditions for Operation:

- pH.....6.5 – 9.0
- Bed depthapplication dependent
- Backwash flow rate25 – 30 gpm per sq. ft.
- Backwash expansion15 – 30% of bed depth
- Service flow rate5 gpm/sq. ft.
- Freeboard40% of bed depth (min.)

Fleck 7000 Control																					
Tank Size	10 x 44						10 x 54			12 x 48			13 x 54			14 x 65			16 x 65		
	Maximum Flow Rate, System - 27 GPM												Maximum Backwash Rate - 27 GPM								
	FLOW RATES - Gallons Per Minute																				
	Min	Max	BKW	Min	Max	BKW	Min	Max	BKW	Min	Max	BKW	Min	Max	BKW	Min	Max	BKW			
Pyrolox	2.5	5.0	15.0	2.5	5.0	15.0	4.0	7.0	20.0	4.5	8.0	25.0	5.0	9.5	30.0	7.0	12.5	XX			
	VALVE SPECIFICATIONS																				
Mineral Tank Size	10 x 44			10 x 54			12 x 48			13 x 54			14 x 65			16 x 65					
Pipe Size	1" and 1-1/4"			1" and 1-1/4"			1" and 1-1/4"			1" and 1-1/4"			1" and 1-1/4"			1" and 1-1/4"					
Drain Pipe Size	1/2"			1/2"			1/2"			1/2"			1/2"			3/4"					
Distributor Pilot	1.05 or 32mm			1.05 or 32mm			1.05 or 32mm			1.05 or 32mm			1.05 or 32mm			1.05 or 32mm					
Tank Thread	2.5" - 8			2.5" - 8			2.5" - 8			2.5" - 8			4" - 8			4" - 8					
Overall Height, Inches	50.5			61			54.7			60.8			73			74					

Fleck 2510 Control												
Tank Size	10 x 44			10 x 54			12 x 48			13 x 54		
Maximum Flow Rate, System - 19 GPM						Maximum Backwash Rate - 17 GPM						
FLOW RATES - Gallons Per Minute												
	Min.	Max.	BKW	Min.	Max.	BKW	Min.	Max.	BKW	Min.	Max.	BKW
Pyrolox	2.5	5.0	15.0	2.5	5.0	15.0	4.0	7.0	---	4.5	8.0	---
VALVE SPECIFICATIONS												
Mineral Tank Size	10 x 44			10 x 54			12 x 48			13 x 54		
Pipe Size	3/4" and 1"			3/4" and 1"			3/4" and 1"			3/4" and 1"		
Drain Pipe Size	1/2"			1/2"			1/2"			1/2"		
Distributor Pilot	1.05			1.05			1.05			1.05		
Tank Thread	2.5"- 8			2.5"- 8			2.5"- 8			2.5"- 8		
Overall Height, Inches	50.5			61			54.7			60.8		

Product Features

- Fully adjustable 5-cycle top mount control delivers controlled upflow backwash, downflow brining and slow rinse, rapid rinse, brine refill and downflow service
- Time-tested hydraulically balanced piston, seal and spacer concept to control service flow and regeneration
- Non-corrosive, high-tech material construction
- Excellent flow rates – 19 GPM continuous, 24 GPM peak
- Backwash capacity handles tanks up to 16" diameter for softener applications, 16" diameter for filter applications
- Choice of 7 or 12 day clock, manual or meter initiated regeneration, mechanical or electronic control

2510 Fleck Valve



FLECK 2510 CONTROL VALVE WITH ENVIRONMENTAL COVER

Product Benefits

- Up to 35 gpm flows for residential/commercial softening and filtration applications
- Reliable optical electronics eliminates microswitch positioning
- SE controls provide quick setup and programming
- Quick connect clips allow easy installation and maintenance
- Regenerates up to 10 cu ft. softeners

Features and Options

- High flow bypass valve
- High flow distribution system
- Plumbing connections in 1"-1.5" NPT, BSP and Sweat
- Soft water brine refill
- Variable reserve
- Meter or Timeclock initiated regeneration
- Manual operation
- Variable brining
- Double backwash
- Environmental cover (NEMA-3R rated)
- Auxiliary switch

7000SXT Fleck



The use of additional oxidizing agents (oxygen, chlorine, ozone, hydrogen peroxide, potassium permanganate, etc.) is recommended. Oxidizers will not adversely affect Filox™. As a matter of fact, they will enhance its performance. They super-oxidize the media, which enables Filox™ to perform quicker and keep cleaner. It is always a safe practice to install an oxidation method upstream (in front) of the Filox™ bed



WARRANTY 5 YEARS ON ALL CONTROLS • 10 YEARS ON ALL TANKS • 1 YEAR COMPLETE SYSTEM

