How to handle the "troublesome trio".

Water treatment professions are fully aware the "troublesome trio" –Iron, Hydrogen Sulfide and Manganese are tough to "knock out". Fortunately, there's a solution to the problem!

FILOX™

media for Iron, Hydrogen Sulfide and Manganese, or as we refer to them as the "troublesome trio".

Removing these contaminants is a challenge!

Traditional treatment methods

Traditionally, oxidizing agents such as chlorine, hydrogen peroxide, potassium permanganate, ozone and even oxygen contained in air have been used to oxidize Iron, Hydrogen Sulfide and Manganese to drop them out of solution, so they are easily removed. This may be effective, but the process is more expensive and it may be an unnecessary step, depending on the oxygen content of the water you plan to filter.

How Filox™ works!

The active ingredient in Filox is Manganese Dioxide (75% - 85%), which acts as a catalyst to use oxygen in water to oxidize minerals and gases, so they will drop out of solution and be entrapped by the Filox and be removed from the bed during backwash.

Note

Oxidizing chemicals may be used with Filox to enhance performance. Our customers tell us, however, they use Filox alone in the majority of their installations. If in question, ORP testing is recommended to determine the oxygen content of the water to be filtered.

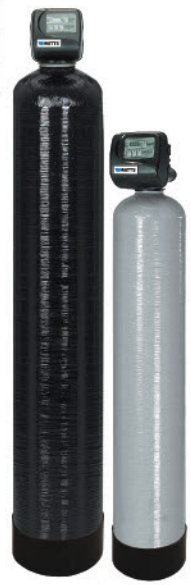
Warranty: Systems come with a limited warranty on tanks and valves. See card for full details.

Operating conditions

Activate ingredient	Manganese Dioxide (75% - 85%)
Service flow rate	6 GPM per cubic foot
Freeboard	30-50 percent
Backwash rate	15 GPM per square foot (at 60F)
pH range	6.5 to 9.0
Bed depth	20" minimum

Removal Capacity

Iron	27 PPM
Hydrogen Sulfide	17 PPM
Manganese	11 PPM



FILOX™ systems

We supply a complete line of Filox systems, offering the following advantages:

- Superior performance, so less media is required.
- Smaller tanks may be used.
- Oxidizing agents are typically not required.
- Vortech® tanks increase backwash efficiency by providing greater "lift" to help conserve water.
- Iron stains eliminated!

Models

MODEL NUMBER	MEDIA CU. FT.	TANK SIZE	SERVICE FLOW (GPM)	SPACE REQUIREMENTS
NF09-W100F	1.0	9" x 48"	6	16" x 10" x 55"
NF10-W100F	1.5	10" x 54"	9	16" x 11" x 62"
NF12-W100F	2.0	12" x 52"	12	17" x 13" x 60"
NF14-W100F	3.0	14" x 65"	18	18" x 15" x 74"
NF16-W100F	4.0	16" x 65"	24	20" x 17" x 74"

Note: All systems come with Vortech tanks for improved performance. Before final equipment selection, a water analysis is suggested.

Superior performance

Filox works when other Iron reduction media fail. If fact, oxidizers are not required in most Filox installations!

Lower cost

Less Filox is required compared to other media types to accomplish the same flow rates, reducing media costs.

Smaller tanks

Because less Filox is typically required, compared to other media, smaller tanks may be used to accomplish the same flow rate, reducing costs.

Conserves water!

The use of Vortech tanks increases backwash efficiency by providing greater "lift" to help conserve water.

NSF certified

Filox is NSF certified to Standard 61 for material safety.

CERTIFIED TO ANSI / NSF 61