



**Advanced**

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## **HIGH SUSPENDED SOLIDS FILTRATION**

High suspended solids are high concentrations of particulate matter that can cause increased sedimentation and siltation in streams or rivers. High suspended solids can come from many sources including natural erosion, runoff, agricultural practices, domestic and industrial wastewater discharge and pollution.

Suspended particles such as metals and bacteria provide matter for other pollutants to attach or serve as indicators of other potential pollutants. High suspended solids in excessive concentrations can be harmful to the environment and toxic to important habitats for fish and other aquatic life.

Filtronics will design a simple, proven and cost-effective treatment system based upon influent quality, economics and space management. Filtronics uses only ANSI/NSF Standard 60 and ANSI/NSF Standard 61 compliant media.

### **FILTRONICS ELECTROMEDIA® III FILTERS RAW WATERS HAVING HIGH SUSPENDED SOLIDS OF 200 PPM AND CONTAINING DETERGENTS.**

#### **Filtronics Advantages**

- Complete Filtration Solution
- Permanent Filtration Media
- Smallest Footprint in the Industry
- High Filtration Rates
- Exceeds Federal Requirements
- Microprocessor Controlled for Simplified Operation, Monitoring & Maintenance
- Practical and Cost Effective
- Proven



1500 GPM Surface Water Treatment Plant

As a leader in filtration innovation, Filtronics engineers can determine practical and cost effective solutions to meet your water quality needs.



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# HIGH SUSPENDED SOLIDS FILTRATION

## ELECTROMEDIA® III

Electromedia® III is a unique filtration system integrating a special vessel design and a proprietary media formulated for the filtration of raw waters having high suspended solids (in the order of 200 ppm) and containing detergents. It is used in conjunction with an alum and ferric chloride pretreatment to produce filtrates having a turbidity of approximately 10 NTU.

Electromedia® III can be used on such applications as primary sewage after gross solids have been removed, car wash rinse waters or irrigation waters among others. Filtronics EM-III is your solution for filtration before high suspended solids reach our natural resources such as streams, rivers or oceans.

## AUTOMATION

Our standard controls package uses a PLC and graphic display panel for automatic, unattended operation. Automatic filter controls include reset timers for filtration, backwash and purge. Backwash is initiated by time or differential pressure override. Controls are housed in a NEMA 4 or NEMA 12 enclosure.

## STANDARD EQUIPMENT

- Flow range from 10 to 750 gpm simplex systems.
- 60 psi pressure tank ASME code, stamped. (Higher ratings available.)
- Filter tanks are carbon steel, with epoxy lining of all wetted surfaces.
- Backwash flow controls, air release valves, automatic filter control valves.
- Standard interior fittings: PVC, and/or stainless steel.
- Each tank fitted with 12" X16" access hatches, 6" x 8" hand holes, or manways

FLOW GPM	VESSEL SIZE	VESSEL DIAMETER IN INCHES	TANK STRAIGHT SIDE	PIPE OUTLET IN INCHES	BACKWASH RATE GPM	TYPICAL BACKWASH VOLUME
10	FV-1	20"	54" Vert.	1.5"	40	160 Gal.
15	FV-2	24"	54" Vert.	2"	60	240 Gal.
25	FV-3	30"	54" Vert.	2.5"	95	380 Gal.
35	FV-4	36"	54" Vert.	3"	140	560 Gal.
50	FV-5	42"	54" Vert.	4"	190	760 Gal.
60	FV-6	48"	54" Vert.	4"	250	1000 Gal.
80	FV-7	54"	54" Vert.	4"	310	1,240 Gal.
95	FV-8	60"	54" Vert.	6"	385	1,540 Gal.
140	FV-9	72"	54" Vert.	6"	560	2,240 Gal.
165	FV-10	78"	60" Vert.	6"	655	2,620 Gal.
200	FH-11	84"	57" Horiz.	8"	800	3,200 Gal.
250	FH-12	84"	75" Horiz.	8"	1000	4,000 Gal.
375	FH-13	84"	123" Horiz.	10"	1500	6,000 Gal.
500	FH-14	84"	170" Horiz.	10"	2000	8,000 Gal.
625	FH-15	84"	218" Horiz.	12"	2500	10,000 Gal.
750	FH-16	84"	264" Horiz.	12"	3000	12,000 Gal.



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