



**Advanced
Water
Treatment
Solutions**

TURBIDITY FILTRATION

Turbidity is a measure of the cloudiness of water - the cloudier the water, the greater the turbidity. Turbidity is caused by suspended matter such as clay, silt, and organic matter as well as plankton and other microscopic organisms that interfere with the passage of light through the water.

Turbidity is closely related to total suspended solids (TSS), but also includes plankton and other organisms. Turbidity itself is not a major health concern, but high turbidity can interfere with disinfection and provide a medium for microbial growth. It may also indicate the presence of heavy metals such as cadmium, mercury and lead or toxic organic contaminants.

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

FILTRONICS ELECTROMEDIA® V FILTERS TURBIDITY MATERIAL BELOW 2 MICRONS INCLUDING GIARDIA AND CRYPTOSPORIDIUM.

Filtronics Advantages

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



400 GPM Creek Water Filtration

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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ELECTROMEDIA® V

Electromedia® V is a unique filtration system integrating a special vessel design and a proprietary media. Electromedia® V is formulated for the filtration of turbid river and canal water containing high proportions of colloidal material. Electromedia® V combined with alum feed will produce filtrate qualities of less than 0.3 NTU from raw water turbidities in the order of 30 NTU.

Electromedia® V is applied where extremely high quality filtrate is required. Applications such as process water for the semiconductor industry, preceding reverse osmosis units, deionization units, critical cooling tower make-up water, and certain municipal applications for potable water including color, odor, turbidity and ground water under the influence.

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 20 to 1,500 gpm simplex systems.
- 60 psi pressure tank ASME code, stamped. (Higher pressures 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 depending on filter size.



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FLOW GPM	VESSEL SIZE	VESSEL DIAMETER IN INCHES	TANK STRAIGHT SIDE	PIPE OUTLET IN INCHES	BACKWASH RATE GPM	TYPICAL BACKWASH VOLUME
20	FV-1	20"	54" Vert.	1.5"	40	160 Gal.
30	FV-2	24"	54" Vert.	2"	55	220 Gal.
50	FV-3	30"	54" Vert.	2.5"	90	360 Gal.
70	FV-4	36"	54" Vert.	3"	125	500 Gal.
95	FV-5	42"	54" Vert.	4"	170	680 Gal.
125	FV-6	48"	54" Vert.	4"	225	900 Gal.
150	FV-7	54"	54" Vert.	4"	285	1,140 Gal.
190	FV-8	60"	54" Vert.	6"	350	1,400 Gal.
280	FV-9	72"	54" Vert.	6"	505	2,020 Gal.
330	FV-10	78"	60" Vert.	6"	590	2,360 Gal.
400	FH-11	84"	57" Horiz.	8"	720	2,880 Gal.
500	FH-12	84"	75" Horiz.	8"	900	3,600 Gal.
750	FH-13	84"	123" Horiz.	10"	1350	5,400 Gal.
1000	FH-14	84"	170" Horiz.	10"	1800	7,200 Gal.
1250	FH-15	84"	218" Horiz.	12"	2250	9,000 Gal.
1500	FH-16	84"	264" Horiz.	12"	2700	10,800 Gal.

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