FILTRONICS
MUNICIPAL & INDUSTRIAL FILTRATION SYSTEMS

Advanced Water Treatment Solutions

TURBIDITY FILTRATION WITHOUT ALUM OR POLYMER

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 approach based upon influent quality, economics and space management. Filtronics uses only ANSI/NSF Standard 60 and ANSI/NSF Standard 61 compliant media.

FILTRONICS ELECTROMEDIA® II FILTERS LOW PROPORTION TURBIDITY MATERIAL TO BELOW 1 NTU WITHOUT THE USE OF ALUM OR POLYMER.

Filtronics Advantages

- Complete Filtration Solution
- Permanent 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® II

Electromedia® II is a unique filtration system integrating a special vessel design and a proprietary media. Electromedia® II is formulated for the filtration of raw waters having low proportions of colloidal material and turbidity in the range of 10 NTU . Electromedia® II produce filtrate qualities of less than 1 NTU without the use of alum or polymer.

Electromedia® II is applied where high quality filtrate for process water is required. Applications for EM-II include 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 30 to 2,300 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.

FLOW GPM	VESSEL SIZE	VESSEL DIAMETER IN INCHES	TANK STRAIGHT SIDE	PIPE OUTLET IN INCHES	BACKWASH RATE GPM	TYPICAL BACKWASH VOLUME
30	FV-1	20”	54” Vert.	1.5”	35	140 Gal.
45	FV-2	24”	54” Vert.	2”	55	220 Gal.
70	FV-3	30”	54” Vert.	2.5”	85	340 Gal.
100	FV-4	36”	54” Vert.	3”	120	480 Gal.
140	FV-5	42”	54” Vert.	4”	160	640 Gal.
185	FV-6	48”	54” Vert.	4”	210	840 Gal.
235	FV-7	54”	54” Vert.	4”	270	1,080 Gal.
290	FV-8	60”	54” Vert.	6”	330	1,320 Gal.
420	FV-9	72”	54” Vert.	6”	475	1,900 Gal.
490	FV-10	78”	60” Vert.	6”	560	2,240 Gal.
600	FH-11	84”	57” Horiz.	8”	680	2,720 Gal.
750	FH-12	84”	75” Horiz.	8”	850	3,400 Gal.
1125	FH-13	84”	123” Horiz.	10”	1275	5,100 Gal.
1500	FH-14	84”	170” Horiz.	10”	1700	6,800 Gal.
1875	FH-15	84”	218” Horiz.	12”	2125	8,500 Gal.
2250	FH-16	84”	264” Horiz.	12”	2550	9,000 Gal.

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