



Advanced Water Treatment Solutions

SECONDARY SEWAGE FILTRATION

Each year, according to the Centers for Disease Control, almost 8 million people get sick and over 900 die from drinking water that is contaminated by human and animal sewage waste. Untreated or 'blended' sewage puts more e-coli, giardia, cryptosporidium, and other deadly parasites, viruses, and bacteria into the waters that hundreds of millions of Americans swim in, boat on, and drink.

Studies show there is just over a 50% chance that people will get sick from swimming immediately adjacent to a sewage out fall where only primary treatment and disinfection is used. The risk of sickness is less than 0.1% where secondary sewage treatment and disinfection is employed.

The Federal Clean Water Act of 1972 mandates that all sewage plants provide secondary sewage treatment. This same legislation requires that polluted industrial wastewater be pretreated before release to sewage treatment plants.

When suitable water quality is desired for discharge to the ocean, landfill or for recycling purposes, Filtronics will design the proper 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® IV FILTERS SECONDARY EFFLUENT WATERS HAVING SUSPENDED AND SETTLEABLE SOLIDS OF UP TO 50 PPM TO FILTRATE QUALITIES OF LESS THAN 5 PPM.

Filtronics Advantages

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



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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SECONDARY SEWAGE FILTRATION

ELECTROMEDIA® IV

Electromedia® IV is a unique filtration system integrating a special vessel design and a proprietary media. Electromedia® IV is formulated for the filtration of secondary sewage effluent.

Secondary effluent waters containing suspended and settleable solids in the order of 50 ppm filtered with Electromedia® IV will result in filtrate qualities of less than 5 ppm suspended solids as measured on a one micron millipore paper. No alum or polymer is required as a filter aid.

Filtronics Electromedia® IV is your solution for filtration before secondary sewage reaches 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 170 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 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
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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