



Advanced Water Treatment Solutions

HEAVY METAL REMOVAL

The content of heavy metals in waste is primarily a consequence of the use of heavy metals in industrial products. At the end of their useful life all products will end up in waste to the extent they are not attractive for recycling. Exposure to heavy metals in waste can have potential harmful effects to humans and the environment. Filtronics has identified 21 heavy metals of concern, the most common include copper (Cu), nickel (Ni), zinc (Zn), chrome (Cr), and cadmium (Cd).

The removal of heavy metals from wastewater streams has become an extremely important field in the last few years. With the enactment of the "Clean Water Act" and its amendments, industry has been required to meet even more stringent levels of water quality in their wastewater.

When suitable water quality is desired for discharge to sewer systems or for recycling purposes, Filtronics will design the proper treatment approach based upon influent quality, economics and space management.

FILTRONICS ELECTROMEDIA® VI EFFICIENTLY FILTERS HEAVY METAL STREAMS 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 Adaptable Solutions



750 GPM Zinc Removal 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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ELECTROMEDIA® VI

Electromedia® VI is a unique filtration system integrating a special vessel design and a proprietary media. Electromedia® VI is a treatment technology developed to ensure that the immediate release of heavy metals to the environment from industry or waste treatment facilities are within acceptable limits.

Filtronics complete Envirowash® backwash/reclaim system can be utilized to guarantee minimum residuals and reduce landfill waste thus helping preserve our precious environment.

Filtronics Electromedia® VI provides an effective, economical solution if you are exceeding your discharge limits for lead, zinc, copper, chrome, or other heavy metals.

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 1500 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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