



Advanced

Water

Treatment

Solutions

COOLING TOWER SIDE STREAM FILTRATION

Cooling Towers by design flush airborne contaminants into the system where they deposit on heat exchange surfaces. Suspended matter in the cooling water also supplies living micro-organisms with a constant food source for sustaining life and multiplying.

The most effective filter system for cooling towers and process water is a permanent media unit with side stream filtration. With side stream filtration, contaminants can be removed before they increase the cost of operating the water-cooled equipment or shut the system down.

As a result of aggressive laws which are now being enforced, industrial companies, institutions and commercial operations are re-evaluating methods to treat their cooling tower waters. Additionally, increased chemical, utility, disposal and training costs make this issue a priority with many organizations.

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

**FILTRONIC'S ELECTROMEDIA® VII EFFECTIVELY
AND EFFICIENTLY REMOVES SCALE AND AIRBORNE
CONTAMINANTS TO ACCEPTABLE LEVELS.**

Filtronics Advantages

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



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® VII

Electromedia® VII is a unique permanent media filtration system integrating a special vessel design and a proprietary media. Electromedia® VII is formulated for the filtration of cooling tower water at slightly elevated temperatures operating at near calcium carbonate saturation. Electromedia® VII effectively removes calcium carbonate, iron and other heavy metal precipitates.

Electromedia® VII is applied to open cooling tower recirculating streams to reduce cleaning cycles and improve heat transfer for:

- Lower Energy Costs
- Lower Maintenance Costs
- Lower Chemical Costs
- Less Down Time
- Less Maintenance - Heavy Duty Construction

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 housed in a NEMA 4 or NEMA 12 enclosure.

STANDARD EQUIPMENT

- Flow range from 30 to 2,300 gpm simplex units.
- 60 psi pressure tank ASME code, stamped. (Higher pressures available.)
- Filter tanks are carbon steel, epoxy lined at 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"	40	160 Gal.
45	FV-2	24"	54" Vert.	2"	60	240 Gal.
70	FV-3	30"	54" Vert.	2.5"	95	380 Gal.
100	FV-4	36"	54" Vert.	3"	140	560 Gal.
140	FV-5	42"	54" Vert.	4"	190	760 Gal.
185	FV-6	48"	54" Vert.	4"	250	1,000 Gal.
235	FV-7	54"	54" Vert.	4"	310	1,240 Gal.
290	FV-8	60"	54" Vert.	6"	385	1,540 Gal.
420	FV-9	72"	54" Vert.	6"	560	2,240 Gal.
490	FV-10	78"	60" Vert.	6"	655	2,620 Gal.
600	FH-11	84"	57" Horiz.	8"	800	3,200 Gal.
750	FH-12	84"	75" Horiz.	8"	1000	4,000 Gal.
1125	FH-13	84"	123" Horiz.	10"	1500	6,000 Gal.
1500	FH-14	84"	170" Horiz.	10"	2000	8,000 Gal.
1875	FH-15	84"	218" Horiz.	12"	2500	10,000 Gal.
2250	FH-16	84"	264" Horiz.	12"	3000	12,000 Gal.

3726 East Miraloma Avenue
 Anaheim, California 92806
 PH: 714-630-5040 Fax: 714-630-1160
 email: info@filtronics.com
www.filtronics.com