



Industrial Water Purification  
1(800) CAL-WATER

## Automatic Carbon Filters ACF- Series – 3/4” – 3” Valves 3 to 220 Gallons Per Minute

**ACF Series Activated Carbon Filters** are heavy duty, low cost units intended for applications requiring flow rates of up to 225 gallons per minute. The ACF Series carbon filters are constructed of materials selected for long life and durability. The control valves are capable of thousands of cycles with almost no maintenance. Activated carbon filters have the ability to remove chlorine, chloramines, taste, odor and color from water.

### ADVANTAGES



**ACF-450-2**  
**Automatic Activated Carbon Filter**

- Cal Water ACF Filters contain the highest quality activated carbon available. Activation numbers exceed 1,000, particle uniformity is in excess of 75%.
- ACF Filter backwashing is automatic time clock initiated, or can be initiated with optional turbine meter or pressure differential controls.
- Self-cleaning, loose tolerance hydraulically balanced piston control valves make the ACF-Filters reliable.
- ACF-Filter pressure vessels are constructed from either inert corrosion-proof FRP fiberglass, or optional welded steel tank with Polybond® liner. Polybond® is a registered trademark of Alamo Water and refers to the heat fusing of 30+ mils of polyethylene to the interior steel of the tank. The exterior of the tank is epoxy coated. The result is the best steel tank on the market.

**For More Information Please Call**  
**1(800)CAL-WATER - (800) 225-9283**

**Limited Warranty:** Cal Water guarantees labor and material for 1 year from the date of an installation. In case of defect in equipment, labor, material or service, Cal-Water's sole responsibility is for the replacement or repair of the defect and cannot be held liable for losses of any kind. (Please see Terms and Conditions of Sale)

## OPERATION

Activated carbon is essentially a reducing agent with a large surface area per unit of volume due to its porosity. One teaspoon of activated carbon has approximately the same surface area as a tennis court.

When removing chlorine, or any other oxidizer, activated carbon actually participates in a chemical reaction by reducing it. Practical flow rates for this type of application are 4-5 GPM/Ft<sup>3</sup>

When removing organics, the activated surface area of the carbon attracts and adsorbs the molecules on to the surface of the particle. Practical flow rates for this type of application are 1-2 GPM/Ft<sup>3</sup>. These flow rates apply to chloramines which acts as an organic molecule.

During backwash, the carbon bed is re-stratified, exposing new surface areas to begin the reduction or adsorption again.

## OPTIONS

- Turbine water meter control.
- Pressure Differential control.
- Filtered backwash water.
- PLC or Computer interface, data acquisition, and/or control.
- Duplex, Triplex and Multiplex controls.

## APPLICATIONS

An **ACF Series** Activated carbon filter is ideal for any application where the removal of taste, odor or color in water is needed. Applications include hotels and restaurants, boilers, cooling towers, ice houses, pretreatment for reverse osmosis systems, to name a few.

## FLOW RATES AND CAPACITIES

Model	Pipe Size	(Organics) @ 2 GPM /Ft <sup>3</sup>	(Chlorine) @ 5 GPM /Ft <sup>3</sup>	Backwash GPM	Pressure Vessel Dia. Ht.	Ft <sup>3</sup> Media	Shipping Weight lb.
ACF45-F5000	3/4"	3	7	4	10" x 54"	1.5	90
ACF60-F2750	1"	4	12	6	12" x 52"	2.4	132
ACF75-F2750	1"	6	15	8	13" x 54"	3.0	165
ACF90-F2750	1"	7	18	9	14" x 65"	3.6	198
ACF120-F2850	1 1/2"	8	20	10	16" x 54"	4.0	220
ACF150-F2850	1 1/2"	10	25	13	20" x 61"	5.0	275
ACF180-F2900	2"	14	35	18	20" x 62"	7.0	385
ACF300-F2900	2"	21	52	26	24" x 71"	10.5	578
ACF450-F3150	2"	32	80	40	30" x 72"	16.0	880
ACF600-F3150	2"	48	120	60	36" x 72"	24.0	1440
ACF900-F3150	2"	64	160	80	42" x 72"	32.0	1920
ACF1250-F3900	3"	88	220	110	48" x 72"	44.0	2640

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