



Industrial Water Purification
1(800) CAL-WATER

Automatic Multi-media Filters MMF Series – 3/4” – 3” Valves 3 to 325 Gallons Per Minute

MMF Series Multi-media Filters are heavy duty, low cost units intended for applications requiring flow rates of up to 325 gallons per minute. The MMF Series filters are constructed of materials selected for long life and durability. The control valves are capable of thousands of cycles with almost no maintenance. Multi-media filters have the ability to filter particles as small as 50 microns without the addition of a filter aid and have replaced sand filters as the industry standard for backwashable filtration.

ADVANTAGES



**MMF 600-F3150
Automatic Multi-Media Filter**

- A Cal Water multi-media filter uses three different backwashable particle filter medias in the same tank. Multiple medias with different densities and sizes have the ability to capture a large variety and volume of suspended particles throughout the entire filter bed. A sand filter uses only the surface of the sand for filtration.
- A multi-media filter can effectively remove particles at a flow rate of up to three times that of a sand filter.
- With the addition of a filter aid such as a polyelectrolyte, a multi-media filter can remove particles down to colloid size. (< 1 micron)
- MMF Filter backwashing is automatically initiated by a time clock, or can be initiated with an optional turbine meter or pressure differential control.
- Self-cleaning, loose tolerance hydraulically balanced piston control valves make the MMF-Filters reliable.
- MMF-Filter pressure vessels are constructed from either inert corrosion-proof FRP fiberglass, or optional welded steel tank with polyethylene liner, heat fused to the interior. The exterior of the steel tank is epoxy coated for a long life.

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

OPERATION



As water passes through a multi-media filter, the three filtration medias remove particles of decreasing size. The top light layer removes large particles, the medium weight layer removes medium sized particles, and the lower, dense layer removes the smallest particles.

During the counter-current backwash all captured particles are released from the three layers to go down the drain.

The settle step following the backwash allows all three medias to re-stratify. The heavier grained media sinks to the bottom, the less dense media settles next, followed by the light, large grained media which settles on top.

OPTIONS

- Turbine water meter control.
- Pressure Differential control.
- Engineered polyelectrolyte chemical feeder and contact tank for colloid removal.
- PLC or Computer interface, data acquisition, and/or control.
- Duplex, Triplex and Multiplex filter systems.

FLOW RATES AND CAPACITIES

Model	Pipe Size	Flow Rates			Vessel			Ft ³ Media	Shipping Weight Lb.
		@ 5 GPM /Ft ²	@ 15 GPM /Ft ²	Backwash GPM	Dia.	X	Ht.		
MMF45-F2750	1"	3	8	7	10"	X	54"	1.6	205
MMF60-F2750	1"	4	12	9	12"	X	52"	2.4	318
MMF75-F2750	1"	5	14	11	13"	X	54"	2.8	373
MMF90-F2850	1 1/2"	5	16	13	14"	X	65"	3.2	449
MMF150-F2850	1 1/2"	7	21	17	16"	X	65"	4.5	635
MMF180-F2850	1 1/2"	13	40	32	22"	X	60"	8.6	1201
MMF300-F3150	2"	16	47	38	24"	X	71"	10.2	1429
MMF450-F3150	2"	25	74	59	30"	X	72"	16.0	2233
MMF600-F3150	2"	35	106	85	36"	X	72"	23.0	3216
MMF900-F3150	2"	48	144	115	42"	X	72"	31.3	4378
MMF1250-F39	3"	63	188	151	48"	X	72"	40.8	5718
MMF1800-F39	3"	108	325	260	63"	X	72"	70.4	9850

Maximum inlet pressure is 100 psi. Maximum inlet temperature is 90°F.

Limited Warranty: All MMF Filter controls are backed by a 3-year warranty. All Cal Water warranties are specifically limited to parts and factory labor only, barring misuse or abuse. In case of defect in equipment, labor, material or service, Cal-Water's sole responsibility is for the repair or replacement of the defect and cannot be held liable for other losses of any kind. (Please See: Terms and Conditions)

Cal-Water has been selling, installing and servicing water purification equipment since **1946**.

Cal Water, 1961 Petra Lane, Placentia, CA 92870
(800) CAL-WATER (800) 225-9283
 FAX: (714) 792-0794
<http://www.cal-water.com>

Orange County (714) 835-7878
 Los Angeles County (323) 663-8335
 San Diego County (858) 457-8411

