

# Industrial Media Filters

## Fiberglass Tanks - 24" to 63" Diameter

**MF-600**  
**SERIES**

**Why a pressure filter?** Pure Aqua pressure filters clarify water by removing sediment, turbidity, iron, unpleasant tastes and odors, suspended particles, and unwanted color, all of which are commonly found in surface water. They can be used in a variety of service conditions including, but not limited to: industrial, municipal, and institutional applications.

### Filter Media

**Anthracite:** Performs nearly identical to a sand bed, but is used in applications where silica pick-up from the sand is objectionable.

**Sand:** The most common filter media, used in most filtration systems. Generally fine mesh sand is coupled with a coarse grain support bed to remove suspended solids and turbidity.

**Gravel:** Gravel has a highly spherical shape that promotes good flow and even distribution in support beds.

**Filter AG:** A non-hydrous silicon dioxide media with outstanding advantages for reduction of suspended matter.

**Activated Carbon:** This media is recommended for the removal of unpleasant tastes, odors, dechlorination, and organic contaminant adsorption.

**Manganese Green Sand:** This media is capable of reducing iron, manganese and hydrogen sulfide from water through oxidation and filtration.

**Multi-Media:** When top quality water is required and unwanted sediment is too small to be removed by standard media, this type of bed is the preferred choice. It consists of multiple layers of increasing grain size. Multi-Media filters will remove sediment down to the 10-micron range.

\*All filters require periodic backwashing to dispose of the accumulated debris. This is accomplished by backwashing clean water through the unit and then disposing of the effluent. During this phase, the different sizes of media separate into layers, preparing the filter bed for service. Because backwashing generally occurs at higher flow rates than those seen in service, oftentimes a proper backwash flow rate is not possible because the systems are designed for required service flow rates. However, by utilizing smaller double or triple unit systems, the optimum backwash flow rate is lower; therefore, these systems can operate at higher service flow rates.



### Standard Features

- 1" - 3" Noryl diaphragm valves, 4" cast iron butterfly valves with nylon coating, stager operated
- Electro mechanical stager, timer, NEMA 1 enclosure
- Air source not included
- 1/4" tubing between stager and valves
- Electrical supply: 115V/1Ph/60Hz
- FRP tank @ 150 psi pressure rating
- Polyethylene internal lining
- Schedule 80 PVC face piping
- PP/PVC 80 internal piping and distributor
- Vent and drain ports
- High quality media
- Low maintenance

### Available Options

- Differential pressure initiation for backwash
- Duplex / Multiplex systems
- Butterfly valves, air or electrical motor operated
- Electrical supply: 240V/1Ph/50Hz
- NEMA 4 or NEMA 4X enclosures
- Tanks according to ASME code Steel or SS tanks with higher pressure rating
- 316 SS or galvanized iron piping
- Inlet / Outlet 316 SS pressure gauges
- Inlet / Outlet sample valves
- Manual or automatic air vent valve
- Vacuum breaker
- Flanged piping connection
- Pipe supports

 **Pure Aqua, Inc.**

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Model No.		Flow Rate								Tank	Media	Pipe Size		Shipping Weight Lbs.
Automatic	Manual	Minimum		Continuous		Peak		Backwash		D"xH"	Ft <sup>3</sup>	Service	Drain	
		GPM	M <sup>3</sup> /hr	GPM	M <sup>3</sup> /hr	GPM	M <sup>3</sup> /hr	GPM	M <sup>3</sup> /hr					

**Multi Layer Filters: Anthracite, Sand, and Gravel (Turbidity Removal)**

MLF24-A-F	MLF24-M-F	32.0	7.3	47.0	10.7	64.0	14.6	47.0	10.7	24X72	8	1 1/2"	1 1/2"	1,000
MLF30-A-F	MLF30-M-F	50.0	11.4	74.0	16.8	100.0	22.8	74.0	16.8	30X72	12	1 1/2"	2"	1,500
MLF36-A-F	MLF36-M-F	71.0	16.1	106.0	24.1	142.0	32.2	106.0	24.1	36X72	18	2"	2 1/2"	2,300
MLF42-A-F	MLF42-M-F	97.0	22.0	144.0	32.7	194.0	44.0	144.0	32.7	42X72	24	2 1/2"	3"	3,800
MLF48-A-F	MLF48-M-F	126.0	28.6	188.0	42.7	252.0	57.2	188.0	42.7	48X72	32	3"	3"	5,100
MLF63-A-F	MLF63-M-F	216.0	49.1	325.0	73.9	432.0	98.2	325.0	73.9	63X86	54	4"	4"	7,750

**AG Filters: Non-Hydrous Silicon Dioxide (Turbidity Removal)**

AGF24-A-F	AGF24-M-F	25.0	5.7	32.0	7.3	38.0	8.6	32.0	7.3	24X72	8	1 1/4"	1 1/4"	800
AGF30-A-F	AGF30-M-F	39.0	8.9	50.0	11.4	59.0	13.4	50.0	11.4	30X72	12	1 1/2"	1 1/2"	1,100
AGF36-A-F	AGF36-M-F	57.0	13.0	71.0	16.1	85.0	19.3	71.0	16.1	36X72	18	2"	2"	1,770
AGF42-A-F	AGF42-M-F	77.0	17.5	97.0	22.0	115.0	26.1	97.0	22.0	42X72	24	2"	2"	2,850
AGF48-A-F	AGF48-M-F	101.0	23.0	126.0	28.6	151.0	34.3	126.0	28.6	48X72	32	2 1/2"	2 1/2"	3,850
AGF63-A-F	AGF63-M-F	175.0	39.8	216.0	49.1	260.0	59.1	216.0	49.1	63X86	54	3"	3"	6,000

**Activated Carbon Filters: Granular Form with High Degree of Porosity (Taste, Odor and Color Removal)**

ACF24-A-F	ACF24-M-F	16.0	3.6	25.0	5.7	38.0	8.6	38.0	8.6	24X72	8	1"	1 1/4"	700
ACF30-A-F	ACF30-M-F	25.0	5.7	39.0	8.9	59.0	13.4	59.0	13.4	30X72	12	1 1/2"	1 1/2"	1,000
ACF36-A-F	ACF36-M-F	36.0	8.2	57.0	13.0	85.0	19.3	85.0	19.3	36X72	18	1 1/2"	2"	1,600
ACF42-A-F	ACF42-M-F	48.0	10.9	77.0	17.5	115.0	26.1	115.0	26.1	42X72	24	2"	2"	2,600
ACF48-A-F	ACF48-M-F	63.0	14.3	101.0	23.0	151.0	34.3	151.0	34.3	48X72	32	2"	2 1/2"	3,500
ACF63-A-F	ACF63-M-F	110.0	25.0	175.0	39.8	260.0	59.1	260.0	59.1	63X86	54	2 1/2"	3"	5,300

**Manganese Greensand Filters: Enriched Quality with High Catalytic Capacity (Fe, Mn and H<sub>2</sub>S Reduction)**

GSF24-A-F	GSF24-M-F	16.0	3.6	25.0	5.7	32.0	7.3	32.0	7.3	24X72	8	1"	1 1/4"	1,100
GSF30-A-F	GSF30-M-F	25.0	5.7	39.0	8.9	50.0	11.4	50.0	11.4	30X72	12	1 1/2"	1 1/2"	1,650
GSF36-A-F	GSF36-M-F	36.0	8.2	57.0	13.0	71.0	16.1	71.0	16.1	36X72	18	1 1/2"	2"	2,530
GSF42-A-F	GSF42-M-F	48.0	10.9	77.0	17.5	97.0	22.0	97.0	22.0	42X72	24	2"	2"	4,200
GSF48-A-F	GSF48-M-F	63.0	14.3	101.0	23.0	126.0	28.6	126.0	28.6	48X72	32	2"	2 1/2"	5,600
GSF63-A-F	GSF63-M-F	110.0	25.0	175.0	39.8	216.0	49.1	216.0	49.1	63X86	54	2 1/2"	3"	8,550

All specifications are subject to change without notice.

**Operating Specifications:**

- Operating Pressure: 2-8.6 bar (30-125psi)
- Electrical Supply: 115V/1Ph/60Hz
- Operating Temperature: 2-38°C (35-100°F)

**Notes:**

- KMnO<sub>4</sub> chemical dosing system is not included
- Above filters can be supplied in 240V/50Hz as an option

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