



Industrial Water Solutions

Quality Products for Quality Water

'MFG-SM' Series Water Filter Systems



Overview

The 'MFG-SM' Series is the corrosion resistant alternative to the 'MFS' Series of media based water filters. These filter systems are equipped with FRP resin tanks and side-mounted Sch 80 PVC exterior piping and valves. All 'MFG-SM' systems are factory skid mounted, pre-piped, pre-wired for ease of installation. Pre-engineered standard designs available for twin and triple tank configurations for the following filtration technologies:

'MZA' Natural Zeolite Filters

An alternative, single media approach to traditional multi-media filters that achieves a finer filtration to 3-5 micron with longer service run times.

'ACA' Carbon Filters

Granular Activated Carbon (GAC) is designed for the reduction of chlorine, taste, odor, and dissolved organic material from municipal and industrial water supplies.

Materials of Construction

- Resin Tanks: Composite FRP with Tri-Pod Base
- Exterior Piping: Sch 80 PVC
- Internal Distributors: Sch 80 PVC / ABS
- Control Valves: Noryl Thermoplastic
- Skid: Painted, Carbon Steel

Standard Equipment / Features

- Marlo MX-III Electronic System Controller
- Motorized Stagers for Automatic Operation
- Timer Initiated Backwash Cycle
- Aquamatic Diaphragm Style Control Valves (Hydraulically Operated)
- NEMA-4X Electrical Enclosures (FRP)
- Inlet/Outlet Tank Pressure Gauges & Sample Valves

Operating Parameters

- Inlet Water Pressure: 30-100 psig
- Electrical: 120VAC, 1-Ph, 60 Hz.
- Temperature: 35-110°F

Options Available

- ASME Rated Media Tanks
- Allen-Bradley PLC/HMI Systems
- Differential Pressure Initiated Backwash Cycle
- Separate Source Backwash Water Supply
- CPVC Exterior Piping
- Butterfly or Ball Control Valves (Air or Electric Operated)
- Multi-Media Layers (Anthracite, Sand, Garnet)
- Greensand Filter Media for Iron Removal
- Catalytic Carbon Media for Chloramine Removal

'MFG-SM' Series Specifications

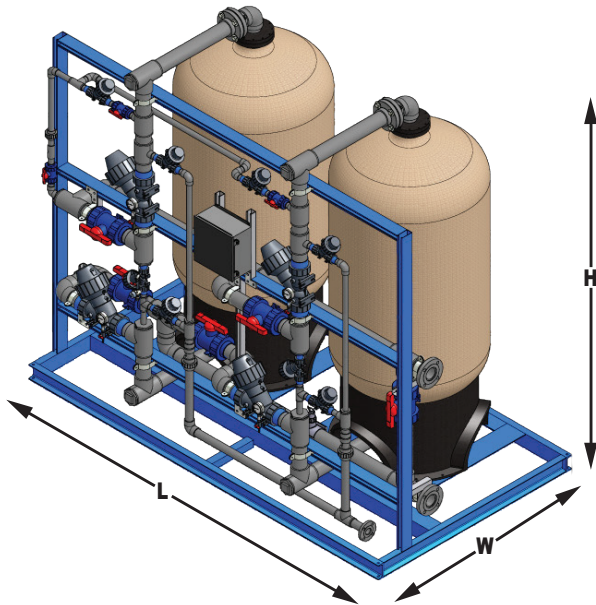
Natural Zeolite Filters

MODEL NUMBER	FLOW RATES					FILTER MEDIA CU. FT.	TANK SIZES	PIPE SIZE		SKID HEADER SIZES ^④		OVERALL DIMENSIONS (LxWxH, INCHES) ^⑤		SHIPPING WEIGHT (LBS.) ^⑥	
	SERVICE (PER TANK)		BACKWASH GPM	TOTAL SYSTEM FLOW			DIAMETER x HEIGHT	TANK SERVICE INCHES	DRAIN INCHES	TWIN INCHES	TRIPLE INCHES	TWIN	TRIPLE	TWIN	TRIPLE
	CONT. GPM ^①	PEAK GPM ^②		TWIN GPM	TRIPLE GPM										
MZA-24G-SM	30	45	45	60-90	90-135	10	24x72	2	2	2.5	2.5	100x52x102	150x52x102	2,650	4,000
MZA-30G-SM	50	75	75	100-150	150-225	15	30x72	2	2.5	3	3	104x58x102	154x58x102	3,730	5,510
MZA-36G-SM	70	105	105	140-210	210-315	20	36x72	3	3	4	4	104x64x103	154x64x103	4,790	7,160
MZA-42G-SM	100	145	145	200-290	300-435	30	42x72	3	3	4	6	112x70x110	172x70x110	7,355	10,920
MZA-48G-SM	125	190	190	250-380	375-570	40	48x72	3	4	4	6	118x76x110	176x76x110	9,275	14,100

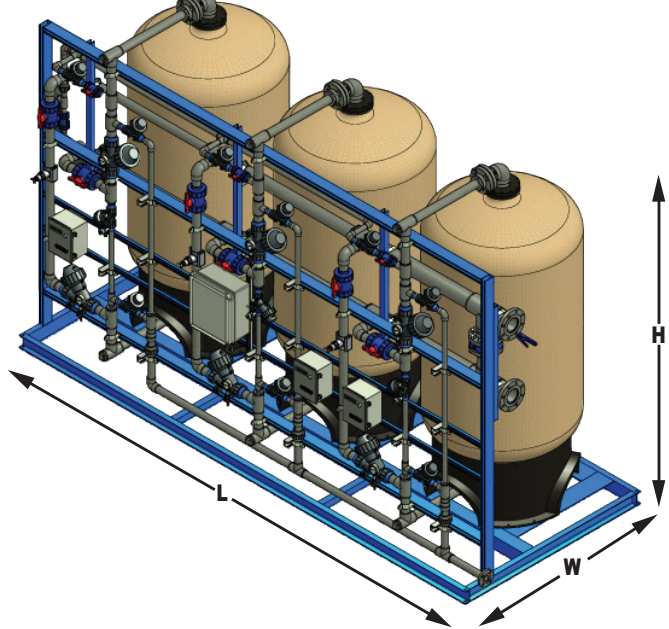
Activated Carbon Filters

MODEL NUMBER	FLOW RATES					FILTER MEDIA CU. FT.	TANK SIZES	PIPE SIZE		SKID HEADER SIZES ^④		OVERALL DIMENSIONS (LxWxH, INCHES) ^⑤		SHIPPING WEIGHT (LBS.) ^⑥	
	SERVICE (PER TANK)		BACKWASH GPM	TOTAL SYSTEM FLOW			DIAMETER x HEIGHT	TANK SERVICE INCHES	DRAIN INCHES	TWIN INCHES	TRIPLE INCHES	TWIN	TRIPLE	TWIN	TRIPLE
	CONT. GPM ^②	PEAK GPM ^③		TWIN GPM	TRIPLE GPM										
ACA-24G-SM	20	30	30	40-60	60-90	10	24x72	2	1.5	2	2.5	100x52x102	150x52x102	2,210	3,340
ACA-30G-SM	30	50	50	60-100	90-150	15	30x72	2	2	2.5	2.5	104x58x102	154x58x102	3,070	4,520
ACA-36G-SM	40	70	70	80-140	120-210	20	36x72	2	2	2.5	3	104x64x103	154x64x103	3,910	5,840
ACA-42G-SM	60	100	100	120-200	180-300	30	42x72	3	2.5	4	4	112x70x110	172x70x110	6,050	8,970
ACA-48G-SM	80	125	125	160-250	240-375	40	48x72	3	3	4	4	118x76x110	176x76x110	7,550	11,490

'MFG-SM' Series Twin



'MFG-SM' Series Triple



Notes

- ① Continuous Service Flow is based on 10 gpm/ft² surface loading for Zeolite Filters. Expected pressure drop less than 5 psig (clean bed).
- ② Continuous Service Flow is based on 2 gpm/ft³ volumetric loading for Carbon Filters. Expected pressure drop less than 5 psig (clean bed).
- ③ Peak Service Flow is recommended for intermittent usage only.
- ④ Main service headers indicated for parallel flow applications. Header sizes may change depending on options selected.
- ⑤ Dimensions are estimate only. Actual dimensions may differ dependent on options selected.
- ⑥ Shipping weights are estimate only. Weights include media and gravel that is shipped separately on pallets.



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