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

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>FLOW RATES</th>
<th>FILTER MEDIA</th>
<th>TANK SIZES</th>
<th>PIPE SIZE</th>
<th>SKID HEADER SIZES</th>
<th>OVERALL DIMENSIONS</th>
<th>SHIPPING WEIGHT</th>
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<tbody>
<tr>
<td></td>
<td>SERVICE (PER TANK)</td>
<td>BACKWASH</td>
<td>TOTAL SYSTEM FLOW</td>
<td>CONT. GPM</td>
<td>PEAK GPM</td>
<td>GPM</td>
<td>TWIN GPM</td>
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<td>MZA-24G-SM</td>
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## Activated Carbon Filters

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<td>TWIN GPM</td>
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</table>

### 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.