Industrial Media Filters
Steel Tanks: 20” to 84” Diameter

Pure Aqua’s media filters clarify water by removing sediment, turbidity, iron, unpleasant tastes, odors, suspended particles and unwanted color; all of which are commonly found in surface water. They can be used in a variety of services including: industrial, municipal and institutional applications.

Above is a computer generated render of three 84” steel tank multimedia filters plumbed in parallel with 6” butterfly control valves. Pure Aqua supplies a full line of standard and fully customizable water filtration systems, all of which are engineered using advanced 3D computer modeling software for accurate and customized solutions.

**Standard Features**
- 1.5”-3” Noryl diaphragm valves or butterfly valves for 4” or larger
- Digital stager for filters using diaphragm valves or PLC for butterfly valves
- 1/4” tubing between stager and valves
- 115V/1ph/60Hz power requirement
- Steel tank with 100 psi rating
- Epoxy coated interior and primed exterior
- Top loading port or manway
- Schedule 80 PVC face piping
- PP/PVC sch 80 internal piping and distributor
- Vent and drain ports

**Available Options**
- 240V/1ph/50Hz power requirement
- Differential pressure initiation for backwash
- NEMA 4 or NEMA 4X enclosures
- ASME coded tanks
- Tanks with higher pressure rating
- 316 SS or galvanized iron face piping
- Inlet/outlet 316 SS pressure gauges
- Inlet/outlet sample valves
- Manual or automatic air vent valves
- Vacuum breakers
- Flanged piping connection
- Unistrut channel supports
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Digital Stager
The digital stager can use air or water to actuate the control valves. PLC control is optional.

Vacuum Breaker
The vacuum breakers protect the tank and face piping during operation by preventing negative pressure in the tank.

DP Switch
The differential pressure gauge and switch are used to automatically initiate backwash.

Filter Media Types
Pure Aqua supplies a wide range of quality filter media that meet industry standards for efficient and effective filtration.

Sand
Graded in various ranges, Pure Aqua’s sand can be used as filtration media or underbedding depending on particle size and application.

Anthracite
Anthracite is recommended as a filter media where additional silica in the water is not desirable and removes lighter weight turbidity.

Calcite
Calcite media is specially graded calcium carbonate compound for neutralizing acid with consistent dissolving rates for water treatment.

Activated Carbon
Activated carbon media is used to remove taste, odor and chlorine and used in many drinking water applications.

Manganese Greensand
Manganese Greensand media is treated siliceous material for treating water containing iron, manganese and hydrogen sulfide.

ProSand
ProSand is based on a rare natural mineral. Its unique properties radically improve the performance and cost of media filtration.
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**Operation Specifications**
- Operating pressure: 2-6.8 bar (30-100 psi)
- Electrical requirement: 115V/1ph/60Hz
- Operating temperature: 2-38°C (35-100°F)
- Filters can be supplied in 240V/1ph/50Hz

### Operation Specifications

- **Flow Rate**
- **Tank Size**
- **Media Qty** (ft³)
- **Pipe Size**
- **Approx Weight (lbs)**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Flow Rate</th>
<th>Tank Size</th>
<th>Media Qty</th>
<th>Pipe Size</th>
<th>Approx Weight</th>
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<td>Minimum</td>
<td>Average</td>
<td>Peak</td>
<td>Backwash</td>
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<td>GPM M³/H</td>
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#### MF-1000 SERIES

- MF-1000
- MF-2000
- MF-3000
- MF-4000
- MF-5000
- MF-6000
- MF-7000
- MF-8000

**Operation Specifications**
- Operating pressure: 2-6.8 bar (30-100 psi)
- Electrical requirement: 115V/1ph/60Hz
- Operating temperature: 2-38°C (35-100°F)
- Filters can be supplied in 240V/1ph/50Hz

**Pure Aqua also supplies:** Custom Engineered Solutions, Reverse Osmosis Systems, Water Conditioning, Chemical Dosing Systems, Ultraviolet (UV) Sterilizers and Ozonation Systems.
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**Reverse Osmosis & Water Treatment Systems**

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<thead>
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*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 operate at higher service flow rates.*

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