

Series SMM Multimedia Filtration

CROWN SOLUTIONS

Crown Solutions provides custom-designed multimedia filtration systems for efficient removal of solids and contaminants from water. The unique design uses a layered bed of garnet, filter sand and anthracite. Multimedia filtration is primarily used to:

- > Improve the operating performance of cooling towers by removing suspended solids from the cooling tower water, allowing higher cycles of concentration and lower microbiological levels.
- > Treat water upstream of other water purification equipment, such as reverse osmosis or ion exchange resins, to remove suspended solids that can damage the downstream equipment.

With more than 20 years of experience in creating water solutions and services, Crown Solutions offers multimedia filtration systems with unique advantages over conventional filter beds.

Benefits that Make a Difference

- > Layered multimedia plus gravel support bed to retain substantially more sediment before pressure drop dictates that backwashing is necessary.
- > Inlet and outlet sample valve and pressure gauge to monitor the performance of the unit.
- > Pressure compensating backwash flow controller ensures proper backwash flow rates with varying backwash water pressures.
- > Backwash counter monitors influent water conditions.
- > Differential pressure initiated backwash, which is fully automated conserves water by only backwashing when necessary.
- > Vessels are coated with epoxy, inside and out, for corrosion resistance and long service life.
- > Systems are delivered fully assembled and factory tested to minimize installation costs and enable easy start-up.
- > Conservative sizing and effluent flow adjustment optimize operating performance.



INDUSTRIAL SIDE STREAM MULTIMEDIA FILTER

This unit is an example of a multimedia filter for removing suspended solids from cooling tower water. It is designed to filter a percentage of the cooling tower water recirculation flow. This unit is complete with welded carbon steel piping, air operated butterfly valves, supply pump, combination motor starter and controls.

Options

- > ASME code tanks
- > Effluent flow meter
- > Booster pumps with combination motor starter and control transformer
- > Skid mounting and interconnected piping
- > Choice of valve controls
- > PVC galvanized or stainless steel face piping
- > Can be configured as iron filter or carbon filter



Solutions & Technologies

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HEAVY DUTY INDUSTRIAL MULTIMEDIA FILTER

This unit is custom designed for severe plant environments, and is an example of how Crown Solutions can accommodate your need to incorporate plant standard components or configurations. It features stainless steel piping and vessel internals, air operated butterfly valves and vessels that are code stamped for 150 psi service. The units are skidded in pairs, and positioning pins facilitate alignment during installation. Control is via a remote PLC and each skid includes a solenoid panel. All valve actuator tubing is factory installed. The unit is fully instrumented with pressure and flow transducers at all critical points.



INDUSTRIAL MULTIMEDIA FILTER

This unit is typical of Crown Solutions' industrial product line and features stainless piping and air operated butterfly valves. Control is supplied via an industrial PLC mounted on the unit. Tank and piping system are rated for 100 psi service.



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