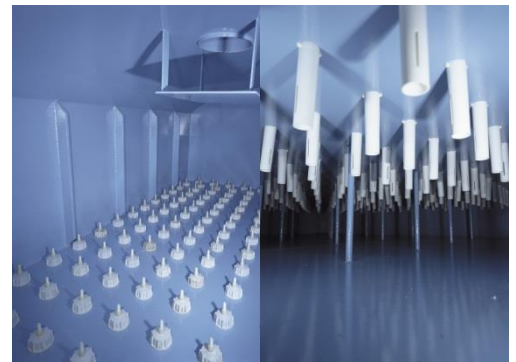
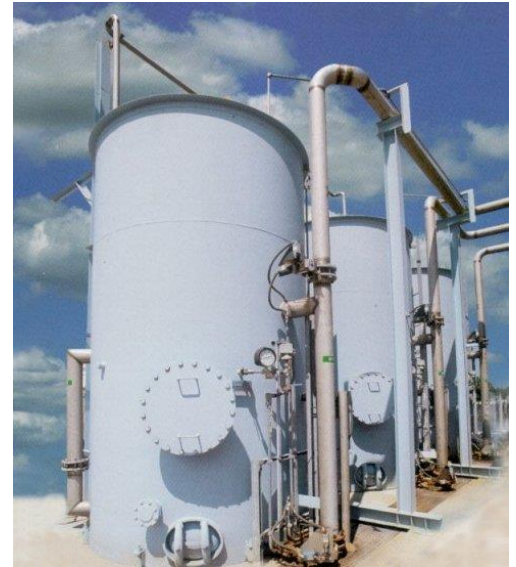


Monoscour® Filter

ECODYNE Limited



The Monoscour® filter is a heavy duty, high-rate gravity filter designed for treating high turbidity loads and sticky particulates such as those typically encountered following chemical treatment with polymers and coagulants. The Monoscour filter is fully automatic and incorporates a self-contained backwash compartment which eliminates the need for backwash pumps and tanks.

Standard Design Features

- ~ Carbon steel tank construction
- ~ Always operates under positive head, no siphons
- ~ Structural steel beam reinforcement at high stress areas
- ~ Coal tar epoxy lining
- ~ Impact and corrosion resistant, FDA approved, molded polypropylene strainer construction
- ~ Flow split box included for multi-cell installations
- ~ Fully automatic operation with standard industrial grade PLC controls

Optional Design Features

- ~ Alternate materials of construction (stainless steel, concrete)
- ~ Municipal design with open air break between filter cell(s) and backwash storage compartment
- ~ Packaged clarifier/Monoscour filter units designed to treat up to 300 gpm in a single factory assembly
- ~ Backwash compartment covers
- ~ Alternate media selections
- ~ Influent clarifiers or floc tanks
- ~ Monovalve® design (without air scour)
- ~ API 650 or 620 designs available

Typical Applications

- ~ Clarifier effluent polishing
- ~ Cooling tower sidestream filtration
- ~ Iron & Manganese removal
- ~ Direct filtration with or without in-line coagulation
- ~ Industrial waste waters
- ~ Potable water
- ~ Reverse osmosis pretreatment

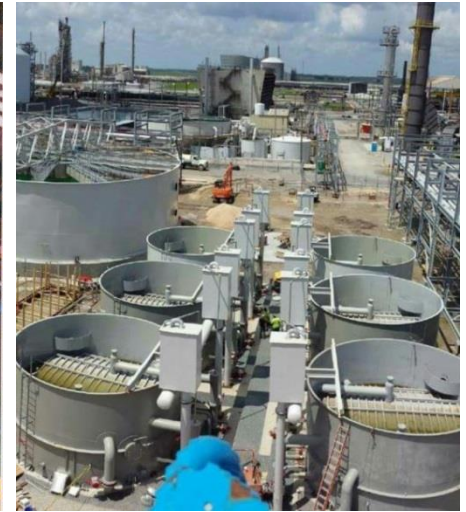
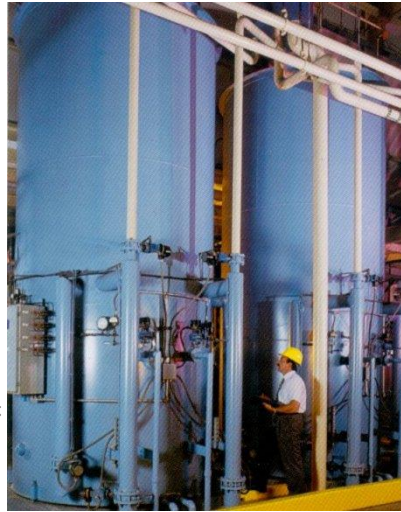
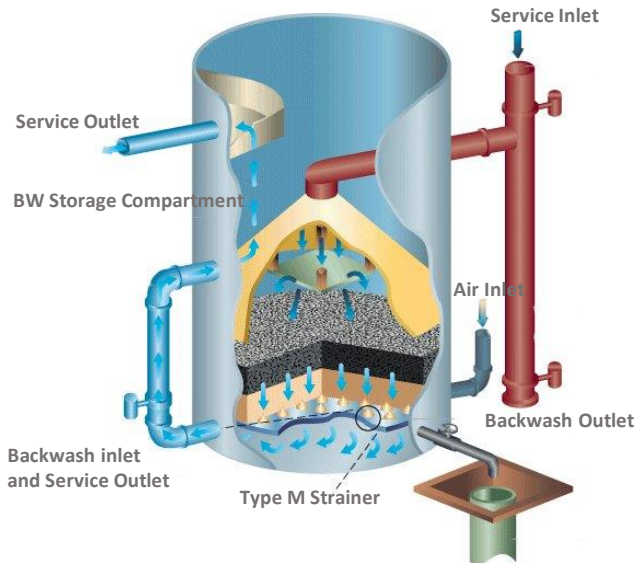


A Marmon Water/Berkshire Hathaway Company

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Monoscour® Filter

ECODYNE Limited



Advantages of the Monoscour® Filter

- “ Heavy duty industrial construction designed for high flow rate applications with difficult suspended solids loads
- “ The integral backwash storage compartment eliminates the need for backwash pumps and tanks
- “ Proprietary non-clogging AWS, plastic strainers with air metering tube provide optimum flow distribution and collection
- “ Air scour assisted backwash minimizes the volume of waste water and increases filter run length
- “ Design does not require a water siphon to initiate the backwash sequence
- “ Backwash can be operator initiated by push button at any time
- “ Elevated effluent discharge permits the use of above grade clearwells or direct discharge to cooling tower basins

Principles of Operation

- “ Influent water passes down through the filter media and is collected AWS® strainers.
- “ The strainers incorporate vertical v-notch slots and an integral backwash air metering tube. This provides optimum flow distribution and collection which increases run length and assures efficient backwashing.
- “ The filtered water is collected in the underdrain compartment, and directed to the backwash storage compartment, and directed to the backwash storage compartment via an external pipe leg with an automatic isolation valve.
- “ Once the backwash compartment is filled, filtered water cascades over a weir to service or an effluent clearwell.



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