



MFC **FIXED PLATE** Cloth Media Filtration



FIXED PLATE CLOTH MEDIA - NO MOVING PARTS

Innovative fixed panel design uses simple open-close valves and gravity to produce filtration and backwash flow. Having NO internal or submerged moving parts eases installation, reduces maintenance, and simplifies overall operation.

www.municipalfilter.com



REDUCED MAINTENANCE

SIMPLE OPERATION

INNOVATIVE DESIGN

MFC's Cloth Media Filter systems feature an innovative fixed panel design that uses simple gravity to produce filtration and backwash flow. These high performance, low-operating cost, tertiary cloth media filters are suitable for both large and small wastewater treatment applications. MFC fixed plate packaged systems are available in completely assembled, 100% stainless steel free-standing units with capacities from 10gpm to 6.0 MGD. Modular systems are available for larger flows typically above 2.0 MGD and are specifically designed for installation into new or existing concrete tankage.

SIMPLE OPERATION

MFC's fixed plate cloth media filters utilize a patented design to generate backwash flow WITHOUT backwash manifolds, spray headers, or other moving parts. Backwash is produced by already available differential head, simple open-close valves, and gravity along with a small amount of pressurized air to enhance cleaning.



NO MOVING PARTS

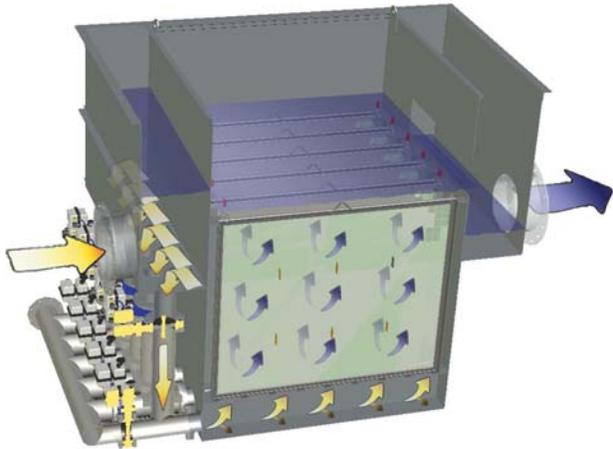
All filter components remain stationary during filtration and backwash, reducing maintenance and power usage. Also, ALL fabricated components, including tankage and internal components, are 100% stainless steel for long life and eased maintenance. Acrylic cloth media removes solids particles down to 10um, is chemically resistant, and can be changed easily without disrupting incoming flow. Alternate media types are also available (IE: 5um).

REDUCED MAINTENANCE

All mechanical equipment, including filter panels, can be removed from the filter without dewatering or diverting incoming flow at any time. All connections required for removal of the cloth media elements are located at the top of the tank, within easy reach, eliminating the need for operators to enter the filter tank for normal maintenance.

Filtering

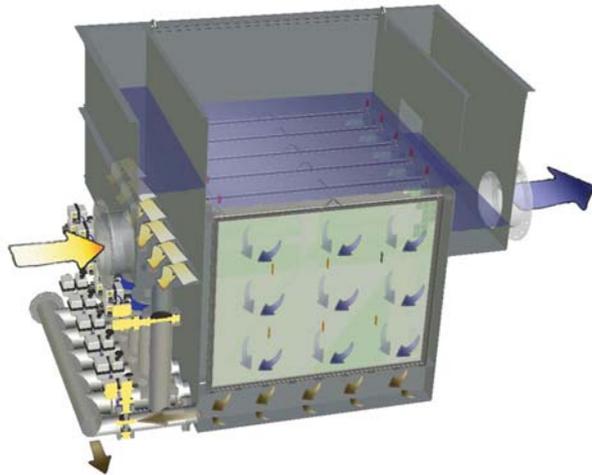
Each independent media plate is made up of 2x rectangular cloth panels which face each other within a stationary framework. Influent enters the filter & is directed to the bottom of each plate. Suspended solids fall to the bottom of the channel or collect on the interior surfaces of the cloth plates. Clean, treated water collects in the filter's main bay and exits over the fixed weir.



Backwash

As solids accumulate on the cloth surfaces, water level in the influent channel begins to rise, eventually initiating a backwash operation. Each independent cloth plate is cleaned in sequence by allowing gravity to force flow in reverse. Backwash flow is produced entirely by gravity, by simply opening each plate's

associated backwash valve. Air is injected into the interior of the plate during backwash to enhance cleaning.



NO MOVING PARTS

FIXED CLOTH MEDIA





PROVEN PERFORMANCE

MFC's Cloth Media Plate Filters

use proven fixed plate cloth media technology to produce exceptional suspended solids and turbidity removal even at high or fluctuating solids loadings, producing reuse quality effluent with TSS less than 2-4 mg/l and NTU below 1 NTU for most wastewater types. MFC's fixed plate cloth media filtration systems are ideally suited for:

- Municipalities, large and small
- Residential & Commercial Developments
- Industrial Applications
- Food Processing
- Reuse Applications (including California Title 22)
- Phosphorous Removal Applications

Please contact MFC or your local rep for specific equipment sizing, pricing, and recommendations.



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