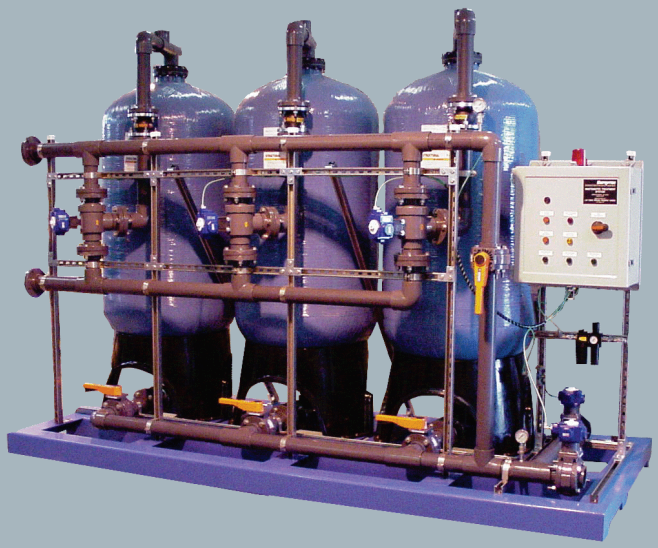
MULTI-MEDIA FILTRATION (MMF)

Multi-Media Filters (MMF) are an efficient, economical method for removing suspended solids from a waste stream. In low TSS streams, they can be used for primary treatment. They are an excellent method of secondary treatment after a primary treatment such as an inclined plate clarifier.



HOW IT WORKS

The incoming waste stream enters the top of the filter vessels. As the wastewater travels downward through the filter media, the solids become trapped in the media bed while the water passes through. The clean effluent exits through an outlet header for further treatment or discharge. As the solids build on the media, the pressure inside the filter builds. At a certain pressure, the media has reached a loading capacity and needs to be backwashed. The backwash mode reverses the flow of the water through one filter at a time. The water enters the bottom of the vessel which expands the filter media and releases the captured solids. Once all the vessels are backwashed, the filters return back to original filtration capacity.

APPLICATIONS

- Automotive parts manufacturing
- Metals plating and finishing
- Metals manufacturing
- Ground water remediation
- Chemical processing
- Food processing
- Petroleum and petrochemical refining
- Heavy Manufacturing
- Potable water

FEATURES & BENEFITS

- Captures 90% or more of particles 20 microns or larger
- Standard Triple Cell design provides the best flux rate for filtration and backwash operation
- 5 layers of media provides better filtration capacity which requires less backwashing
- No consumable costs such as filter bags or cartridges
- Skid mounted design with manual, electrically actuated, or pneumatically actuated vavles
- Vessels constructed of FRP, coated steel, or stainless steel
- EPS Wastewater can provide the entire wastewater treatment system around the MMF unit
- Flow ranges from 5 - 700 GPM

EPS WASTEWATER

Our mission is to deliver wastewater treatment equipment and solutions that effectively and economically address the needs of our customers.

OUR FULL LINE OF TECHNOLOGIES INCLUDE:

- Inclined Plate Clarifiers (IPC)
- Multi-Media Filters (MMF)
- Ultrafilters (UF)
- pH Adjustment Systems
- Pump Skids
- Control Panels
- Dissolved Air Flotation (DAF)
- Oil / Water Separators (OWS)
- Batch Treatment Systems
- Skid Mounted Equipment
- Filter Presses
- Flash Mix and Flocculation

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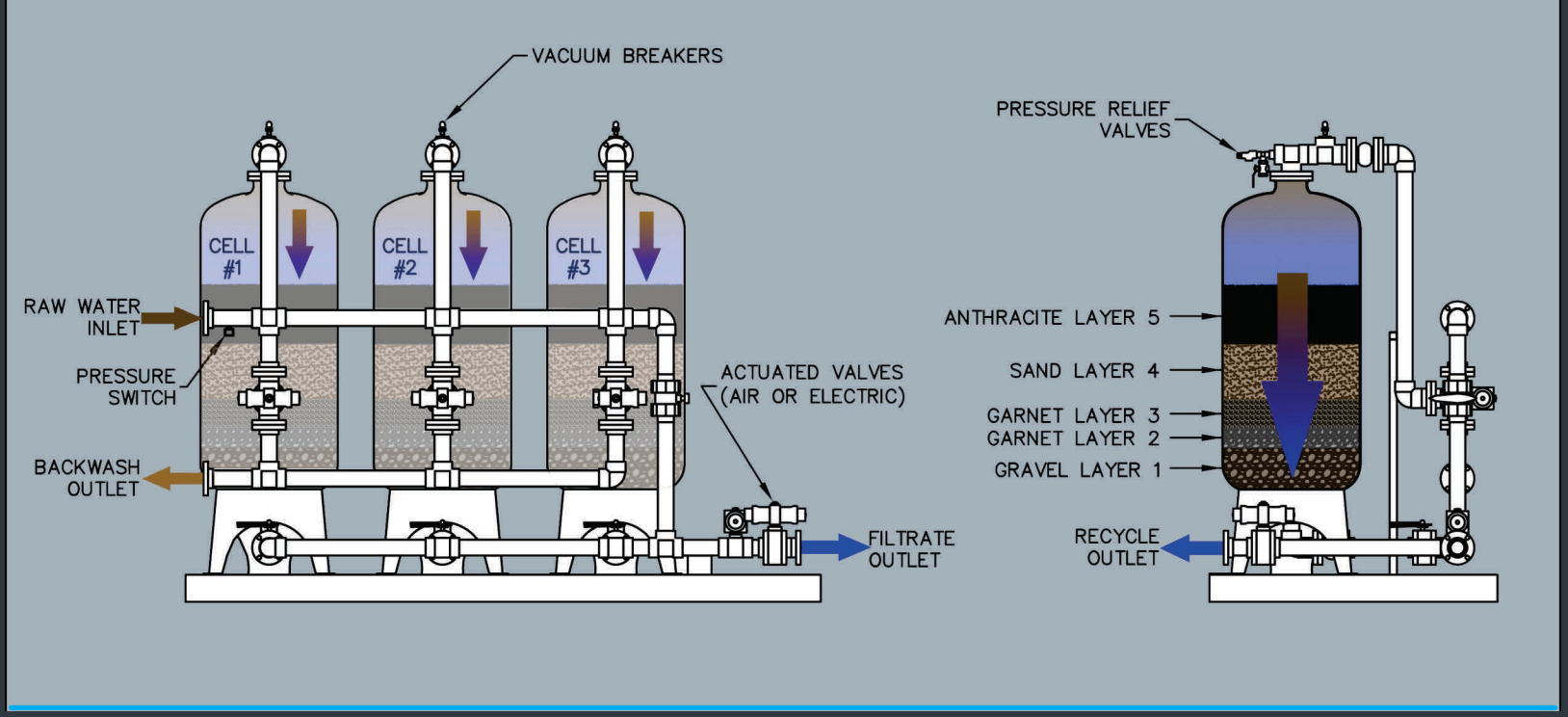
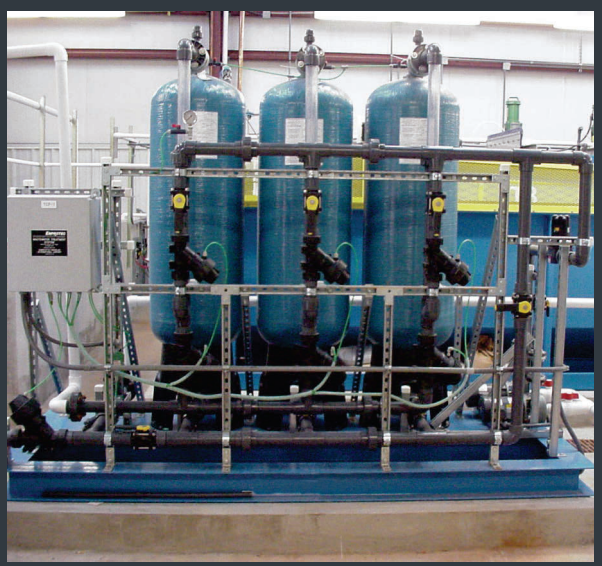


SIZING CHART

Model	Design flow rate (GPM)	Number of vessels	Vessel diameter	Total filtration area (ft2)	Overall Length	Overall Width	Overall Height
MMF5.1	27	3	18"	5.4	10' - 0"	5' - 0"	8' - 3"
MMF7.2	36	3	21"	7.2	10' - 0"	5' - 0"	8' - 3"
MMF9	45	3	24"	9	10' - 0"	5' - 0"	8' - 5"
MMF13.8	69	3	30"	13.8	11' - 6"	6' - 0"	9' - 1"
MMF20.1	101	3	36"	20.1	13' - 6"	6' - 6"	9' - 3"
MMF27	135	3	42"	27	14' - 4"	6' - 9"	9' - 3"
MMF36	180	3	48"	36	16' - 2"	7' - 9"	10' - 2"
MMF60	300	3	63"	60	20' - 0"	9' - 4"	11' - 4"
MMF140.1	701	3	93"	140.1	28' - 9"	13' - 0"	9' - 7"



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