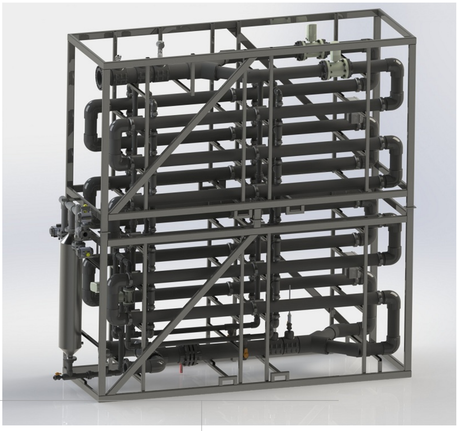
microPULSE MF Systems

Elevate industrial water treatment efficiency with the microPULSE™ MF Membrane Skid. This advanced microfiltration system offers precise separation of solutions into concentrates and permeates, tailored for high-strength industrial process water."

Introduction

The microPULSE™ MF System employs a pressure-driven, back-pulsed microfiltration process designed to maximize efficiency and membrane lifespan.

It effectively separates wastewater by circulating it across a tubular membrane at high velocity. With its innovative cross-flow filtration technique, the system ensures high turbulence on the membrane surface, preventing particle accumulation and enhancing the purification process. This results in a highly effective separation with extended membrane durability.



SPECIFICATIONS

- Membrane Pore Size: 0.1 or 0.5 microns
- Trans Membrane Pressure (TMP): 29 – 116 psig
- Membrane Materials: PVDF membrane on either PE or PVDF substrate
- Nominal Flux: 100 – 1,000 gfd
- Scouring Velocity: 9.8 – 16.4 ft/s

Fabrication & Design

The microPULSE™ MF System is designed with PVDF membranes on either PE or PVDF substrates, offering high chemical resistance and excellent pressure stability.

The back-pulsing microfiltration process sustains high flux and minimizes the risk of membrane plugging or clogging. Additionally, the system's aggressive Clean-in-Place (CIP) capabilities ensure durability and long life expectancy. The system's design allows for full automation and scalability to accommodate facilities of various sizes.

BENEFITS

- Back-Pulsing Microfiltration
- Optimized for High-Strength Industrial Use
- Excellent Anti-Fouling Behavior
- High Chemical Resistance and Pressure Stability
- Durability with Long Life Expectancy
- Fully Automated and Scalable
- High Flux Rates with Low Clogging Risk

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