

Ceramic Membrane Crossflow Filtration System



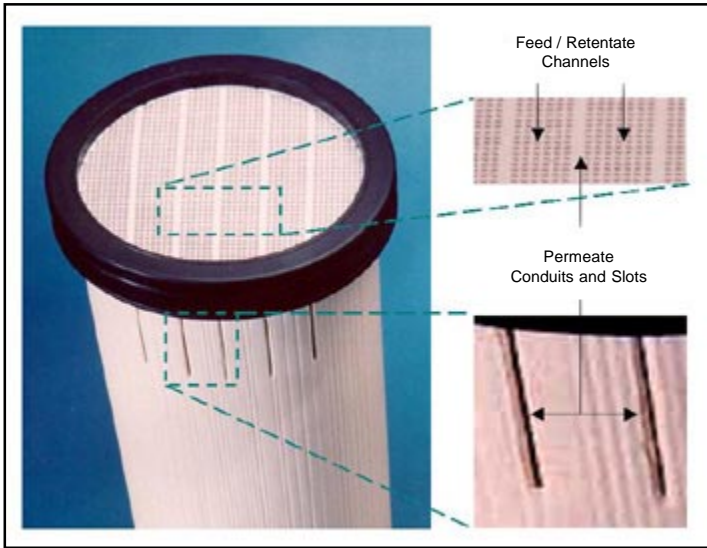
The Hilco ceramic membrane system is an ideal way to lower your oily-water waste disposal costs. The filtration system utilizes high-velocity fluid “crossflow” across the face of the membrane. The oil-free water passes through the ceramic membrane while the oily waste is concentrated in a process reservoir. Depending on the particular waste stream disposal, volumes can be reduced as much as 20x. The system is designed to accept three different micron-rated membranes (0.2 μm , 0.01 μm , and 0.005 μm) in order to meet all specific local discharge ordinances.

Features and Benefits

- High Packing Density
- Broad PH Range of 2-13
- Resistant to Thermal Shock
- Back Flushable
- Immune to Chlorine Attack
- Durable Ceramic Extends Lifetime
- High Surface Area to Unit Volume
- Compact Design



Nominal 50 gal/day capacity model shown



Membrane Filtration

1. Filter has 1800+ channels
2. Some channels are converted to permeate conduits
3. Permeate conduits allow the entire filter diameter to be effectively utilized
4. Patented membrane approach results in higher process flux

Typical Results from a Wastewater Stream

Component	Feed (ppm)	Permeate (ppm)
Oils, Grease	136	1.0
Pb	0.79	0.09
Ni	0.15	0.01
Cu	1.49	0.36
Zn	5.9	0.37

Specifications

Filter Sizes: 5.6" Diameter, 34" Long (120 ft² surface area)
 1.05" Diameter, 12" Long (1.5 ft² surface area)

Standard Membrane Pore Sizes (microns): 0.2 µm, 0.01 µm, 0.005 µm

Operating Parameters: Maximum TMP of 60 psi
 Maximum inlet pressure 85 psi
 Maximum differential pressure 30 psi
 Maximum backpulse pressure 100 psi
 Immune to chlorine attack

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