

Technology Description:

- Porous stainless-steel tubular membranes (3/4") with internal titanium dioxide coating for abrasion resistance
- Robust design handles high temperatures, high solids, high viscosities, and extremes in pH
- Cleans quickly using standard chemistries
- Welded and bolted construction in ASME pressure vessel
- Designed to last 10-15 years in challenging applications with little downtime, maintenance, or repair
- No internal moving parts with one external centrifugal pump
- Can operate in batch-mode or continuously and be mounted horizontally or vertically
- Proudly manufactured in the USA



Performance

- Solids-laden and FOG-rich liquids are readily filtered, producing a transparent liquid filtrate and concentrated product
- Removes nearly all suspended solids, oils, bacteria/pathogens, and a large fraction of organic matter
- Permeate recoveries as high as 95%



Data from filtering wastewater recovered from oil-washing process:

Parameter	Feed	Filtrate	Conc.	Removal
Total Solids (%)	1.68	0.74	19.1	55.8%
TSS (mg/L)	13,900	<4	21,400	>99%
COD (mg/L)	67,300	32,100	553,000	52.3%
TKN (mg/L)	160	69	70	57.2%
Phosphorus (mg/L)	100	91	190	9.4%



Facility Benefits

- Oil wash water can be filtered to create reusable water (filtrate) and an animal feed co-product (concentrate)
- Reduce facility wastewater treatment costs and freshwater consumption
- Boost revenue and possibly increase biodiesel yields through sale or re-processing of UF concentrate
- Opportunity to replace existing water-intensive washing processes with ultrafiltration

Please call us today for a customized quotation and to learn more about our pilot testing services.