

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 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
- Filtrate recoveries as high as 95%



Data from filtering potato chip manufacturing wastewater (mg/L):

Parameter	Feed	Filtrate	Conc.	Removal
Total solids (%)	1.24	2.22	6.23	82%
TSS	6,820	100	54,100	99%
BOD	2,777	1,134	13,820	59%
TKN	321	179	848	44%
NH4-N	94	36.2	89.4	61%
Org-N	227	143	759	37%
Phosphorus	38.8	17.6	145	55%
Potassium	334	268	484	20%
Sulfur	41.1	25	94.5	39%



Facility Benefits

- Wastewater can be filtered to reduce sewer discharges, increase land application spreading rates, or reuse filtrate onsite for vegetable washing
- Reduce wastewater disposal and lagoon management costs
- Opportunity to reuse pathogen-free and solids-free filtrate and reduce freshwater consumptions

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