

## 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
- Permeate recoveries as high as 98%



Data from filtering screened carrot processing wastewater (mg/L):

Parameter	Feed	Filtrate	Conc.	Removal
Total Solids (%)	0.57	0.36	2.98	37%
BOD	3,824	2,846	15,500	26%
COD	7,610	4,668	42,040	39%
Phosphorus	20.9	0.5	166.5	98%
Potassium	152.2	2.0	434.6	99%
Sulfure	14.4	<0.5	80.3	>99%



## 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

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