

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

- Egg wash wastewater is readily filtered, producing a transparent liquid filtrate and concentrated product
- Removes nearly all suspended solids, oils, and a large fraction of organic matter, color, and metals
- Filtrate recoveries greater than 95%



Data from filtering egg wash wastewater:

Parameter	Raw Wastewater	Filtrate	Removal Efficiency
Total solids (mg/L)	4,740	2,480	48%
COD (mg/L)	2,960	2,040	31%
TKN (mg/L)	193	22	89%
Phosphorus (mg/L)	112	54	52%
Potassium (mg/L)	47.9	40.3	16%
Sulfur (mg/L)	32.6	10	69%
Calcium (mg/L)	85.4	39.6	54%
Magnesium (mg/L)	17.5	15	14%



Facility Benefits

- Filtrate can be sewer discharged with lower surcharges for TSS, BOD, TKN, and TP
- Permit compliance enhanced, especially for TSS
- Opportunity to reduce costs for disposal/treatment of UF concentrate
- No polymers/flocculants required and fully automated operations
- Excellent pre-treatment ahead of our Two-Step Reverse Osmosis™ system for water reclamation

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