

Pilot Scale System

Project Scope:

Perform microfiltration, ultrafiltration, or nanofiltration of aqueous feedstock on a pilot plant based scale using large, multichannel ceramic membranes. System is adaptable to polymeric membrane use. Current configuration consists of three 41 mm OD x 1.2 m ceramic membranes totaling up to 4.0m² surface area.

Operating Limits:

Source	Minimum	Maximum
Flow Rate	--	303 L/min
Tank Capacity	40 L	160 L
Temperature	10 °C	71 °C
Pressure	10 psi / 0.7 bar	232 psi / 16 bar

Chemicals and Hazards:

Name	Hazard	Mitigation	PPE
Hot Surfaces	Burn / Fire	Training Insulation Signage	Safety Glasses Insulated Gloves
Test Specific Chemicals	Chemical Exposure	Training and SDS Snorkel Ventilation	Safety Glasses Gloves Other PPE per SDS