

ULTRAFILTRATION PILOT SYSTEM

- Fully automated and self-cleaning
- Filtration flux: 59-235 GFD or 11-43 GPM
- Captures suspended solids, turbidity, bacteria, and pathogens greater than 0.01-0.1 μ / 30 nm
- 98% recovery rate
- Aluminum oxide ceramic membrane (Nanostone)
- Dead-end, inside / out membrane filtration
- Remote monitoring and control
- Data trending
- VFD controlled feed pump, backwash pump, and chemically enhanced backwash (CEB) pump
- Chemical feed pre / post-treatment
- Online analyzers (TDS, pH, Free Cl₂, Temp)
- Flexible power options
 - 460VAC / 3pH / 60Hz
 - 230VAC / 3pH / 60Hz
 - 208VAC / 3pH / 60Hz
- Air-conditioned control panel
- Feed water tank with automatic level control
- Treated water storage / backwash water supply tank with automatic level control
- CIP tank with automatic level and temperature control
- Modular design ideal for crate shipment rather than a costly containerized system
- Skid Dimensions: 102" long X 48" deep X 90" high



PARAMETER	TYPICAL	NANOSTONE
	POLYMERIC LIMITS	CERAMIC LIMITS
Maximum Turbidity (NTU)*	500	2,000 +
Maximum Particle Size (μ m) Microns	300	1,000
Maximum Temperature (F°) Continuous	100-113	113
Max. Transmembrane Pressure (PSI)*	20-50	30
Maximum Feed Pressure (PSI)*	20-58	101
pH, Continuous	3-9	4 – 10*
Membrane Lifespan (Years)*	3-7	10-20

* Consult with Pureflow to determine process specific parameters