

Micro-Filtration <

Consistently meet and exceed
compliant water discharge levels
with a durable membrane
filtration
system



Suspended solids separation
utilizing microfiltration

Clarification and Recovery of Industrial Wastewater

KONTEK MEMKON MicroFiltration Systems are designed for the clarification of treated wastewater and process water. **MEMKON** Systems eliminate the need for clarifiers,

polymers and multimedia filters, while removing total suspended solids (TSS) from waste streams to meet critical discharge criteria (i.e. cadmium, lead, mercury).

The filtered permeate can be further processed by a **KONTEK ROKON Reverse Osmosis** System for water recovery and reuse.

An ISO 9001 Company
Established 1980

Kontek Ecology Systems Inc.
3250 Harvester Road, Unit 1
Burlington, Ontario, Canada L7N 3W9

Ph: 877.332.8366
Fax: 905.332.8367
sales@kontekecology.com

www.kontekwater.com

Reduce Your Metal Discharge

Many metal finishers treat their metal-bearing rinse waters through conventional treatment. This method uses a gravity plate settler, which yields inconsistent metal discharge results.

The **KONTEK MEMKON MicroFiltration** Process pre-treats effluents with coagulants, yielding consistent metal discharge numbers.

Due to the nominal 0.1 micron rating, **MEMKON** Systems only allow particulate matter less than 0.1 micron to pass through microfilter membranes. The net result is a greater ability to meet the ever-tightening metal discharge limits. This technology can also be used as a pre-cursor for water recycling through reverse osmosis.



Features and Benefits

- Energy Efficient
- Low Trans Membrane Pressure (TMP) reduces energy costs
- No recirculation pump
- Separate backwash pump
- Lower capital costs and lower O&M costs
- Standardized designs have flexibility for customization, from 5 to 20 USGPM
- Dual or triple train design provides 100% uptime when one train is undergoing membrane cleaning
- Adjustable back-pressure valve allows for control of the permeate flow rate
- Automatic back pulse system will maintain optimal permeate rates
- Sample valves on each membrane housing maximize diagnostic capabilities
- Recirculation pumps and tanks are supplied with chemical cleaning solution
- Completely automated cleaning cycle is available with chemical make-up systems

MEMKON MicroFiltration

Wastewater Treatment



MEMKON MicroFiltration



Recovery of Treated Wastewater



Purified Water



The Complete System

MEMKON membranes use a moulded design. This eliminates seams, prevents weak spots, increases longevity and reduces costs.

MEMKON membranes are moulded from high purity sintered polyethylene. They retain all of their initial properties, even after being immersed in bleach for a one year period. Our competitor's membranes typically become brittle after about 30 days.

MEMKON membrane walls are 25-30% thicker and stronger than our competitor's products.