

# Oily Wastewater Solutions

Your Partner for **All** Your Filtration Needs

The clear choice to make your wastewater crystal clear



*Filtration for a Better Future®...*

# How can KMS help you?

As a complete solution provider, we have the experience and knowledge to design and build the system that will fit your needs to effectively treat your wastewater. We will help you achieve your wastewater treatment objectives, whether you are looking to meet stringent discharge regulatory targets or produce high quality water for reuse at your facility.

## The Challenge – Oily Wastewater

For years, customers have been reacting to their wastewater problems by trying to meet EPA requirements with minimum capital expenses. Costs associated with quick fixes drain financial resources, while still leaving clients struggling with ever tightening discharge requirements.

Modern membrane technology is the answer to solving oily wastewater treatment issues. Businesses across a broad range of industries who already benefit from our technology to improve wastewater management include:

### General Metalworking:

Water-soluble coolants, cutting and grinding oils, machining lubricants, dye penetrant, discharge from parts washer tanks, rinse waters, floor washings

### Primary Metal Processing:

Rolling and drawing oils used as lubricants and coolants in ferrous and non-ferrous operations, coatings and heavy metal bearing wastewater treatment, aluminum processing

### Waste Collection:

Emulsified and water-soluble oily wastes collected by waste haulers

### Food and Cosmetics Manufacturing:

Edible fats and oils from animal and vegetable processing and CIP

### Other Wastewaters:

Produced/frac water, car, truck, tanker and train wash operations, grey water, laundry wastewater, biomass clarification

## The Solution – Advanced Membrane Technology from KMS

Our unique membrane products demonstrate long life and long term successful performance in the most difficult industrial wastewater applications. Our experienced engineers will provide a solution tailored to your facility.



Our technology will help you meet discharge limits and reduce hauling volumes. Our membranes will remove:

**Emulsified Oils • Fats and Grease • COD and BOD • Heavy Metals • Suspended Solids**

# Simplicity Minimal Operator Time Reduced Disposal Costs Reliability

## Complete Solution for Your Filtration Challenges

Our filtration solutions are energy efficient and environmentally friendly, making them the technology of choice for your water sustainability program and reduction of your water footprint.

We use our robust tubular open channel FEG PLUS ultrafiltration membranes and standard KONSOLIDATOR systems to remove emulsified oil and suspended solids from industrial wastewater. We round out this proven treatment with our reputable fouling resistant FLUID SYSTEMS® RO and NF membranes to provide excellent effluent quality and high recovery.

We will use our experience to provide you with the scope of work that satisfies your needs, including:

- **Ancillary Equipment**
- **Tankage**
- **System Integration**
- **On-Site Installation**



## The FEG PLUS Brand

Our FEG PLUS tubular membrane clarifies wastewater, eliminating the need for sludge producing flocculants. Based on ultrafiltration membrane technology, the FEG PLUS membrane provides a physical barrier that precipitated metals cannot penetrate, resulting in excellent permeate quality.

## KONSOLIDATOR System Family

We designed the KONSOLIDATOR systems to provide a long term robust solution treating wastewater. The benefits are clear:

- Heavy-duty industrial applications
- Mechanically cleaned, resists plugging
- Easily tolerates most system upsets
- High recovery, up to 99.5%
- Scalable configuration accommodates streams from 1,500 to 500,000 GPD (6 to 1,900 m<sup>3</sup>/d).

## High Recovery RO Packaged Systems

Wastewater streams treated by KONSOLIDATOR ultrafiltration systems are often clean enough for factory reuse, offering a safe, economical and environmentally friendly alternative to discharge. However, many times RO polishing is required to achieve water quality targets.

We will provide you with innovative and complete solutions using our pre-engineered or custom designed High Recovery RO systems with their clear benefits:

- Proven performance in the most demanding applications
- Efficient and cost-effective operation
- Compact design
- High recovery, up to 90%
- Support by an experienced team of application, process and field engineers

## KMS Assist®

KMS will partner with you throughout the life cycle of your membrane filtration system. Our experienced technical team will provide global service and support and will work directly with you to maximize process efficiency. KMS ASSIST, our service and maintenance program, provides the tools to keep your system operation at the highest level, including:

- Membrane Process Optimization
- Plant Audits
- Data Collection, Analysis & Reporting
- Operator Training
- Telephone Support

### Koch Membrane Systems

Koch Membrane Systems (KMS) is a global leader in membrane filtration technologies with over 50 years of membrane experience and 20,000 system installations worldwide.

We manufacture our membranes in our state of the art facility in the US and we apply them in our systems.



#### Koch Membrane Systems, Inc.

850 Main Street, Wilmington, MA 01887-3388

Main: +1-978-694-7000 • Fax: +1-978-657-5208 • Toll Free: +1-888-677-5624

For complete contact information and listing of our global locations, visit [www.kochmembrane.com](http://www.kochmembrane.com)

©2017 Koch Membrane Systems, Inc. All rights reserved worldwide. For related patent and trademark information, visit [www.kochmembrane.com/legal](http://www.kochmembrane.com/legal).

Koch Membrane Systems, Inc. is a Koch Chemical Technology Group, LLC company. 12/17