

RO and NF Solutions

Your Partner for **All** Your Filtration Needs

Advanced Membrane Filtration for Enhanced Quality and Reduced Costs



Filtration for a Better Future®

How can KMS help you?

Over 50 Years of Membrane Experience

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 employ them in our systems.

As a complete solution provider, we have applied our experience and expertise to develop water and wastewater filtration solution lines to effectively handle streams from different industries and applications. We topped this with our reputable well known FLUID SYSTEMS® RO and NF membranes to provide fouling resistant and high recovery solutions.

Our broad portfolio of MBR, UF, NF and RO products provides complete water filtration solutions to your plant. We will help you meet the process water demand and wastewater treatment objectives. Our filtration solutions are energy efficient and environmentally friendly.

The FLUID SYSTEMS Brand

FLUID SYSTEMS was an early pioneer in reverse osmosis (RO) technology. Since 1967, when FLUID SYSTEMS developed and patented the first spiral wound element, it has created a line of innovation in the membrane filtration world. From the first cellulose acetate RO membrane ever installed commercially, through the first multi-leaf spiral wound element, to the introduction of the first thin-film composite membrane, TFC® – now a trademark recognized as a worldwide industry standard, the FLUID SYSTEMS company and brand continue to bring advanced solutions to the filtration market.

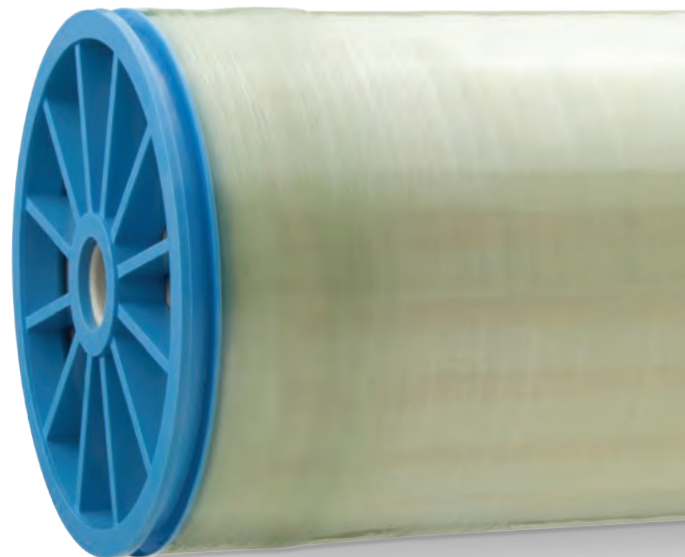
In 1998, FLUID SYSTEMS became a part of Koch Membrane Systems, one of the world's largest water treatment and membrane filtration companies. FLUID SYSTEMS is a key member of KMS, complementing the MBR, MF and UF technologies to provide municipal and industrial clients with broad expertise in filtration and purification processes, continuous investment in R&D and years of operation know-how.

What is Reverse Osmosis?

Reverse Osmosis (RO) is a filtration process known to be the most energy efficient method of removing dissolved salts from water. RO technology plays an integral part in addressing the demand for alternative drinking water and high quality process water for the industry, as the world's water shortage problem continues to escalate.

What is Nanofiltration?

Nanofiltration (NF) is a technology closely related to RO, often used for water softening, hardness removal and reducing the level of organic matter in water. NF membranes excel in removing metals, hardness and other divalent ions from water, while leaving monovalent ions such as sodium and chlorides to pass through the membrane.



We Understand Your Technology Needs

The FLUID SYSTEMS® RO and NF Products

Our RO and NF products are available in standard 8" FRP hard overwrap configuration (8040) in standard and high area construction. All products have drinking water certification under NSF/ANSI Standards 61 and 372. We offer a wide range of reverse osmosis and nanofiltration products to serve in municipal and industrial water applications:

- **TFC® SW:** High rejection seawater RO membranes for treatment of high TDS industrial streams and seawater desalination
- **TFC HR:** Robust high rejection and low fouling brackish water RO products for consistent operation treating industrial streams and wastewater effluents
- **TFC SR:** Low energy NF products for water softening, sulfate removal from seawater and removal of organics



High Recovery RO Packaged Systems

With approximately 20,000 systems operating around the globe, we have the experience and knowledge to design and build the system that will fit your needs.

At KMS we understand that high recovery and reliable RO solutions can make your operations efficient and cost effective. We will provide you with innovative and complete solutions using our pre-engineered or custom designed systems.

Our process engineers, mechanical design professionals and field service team will accompany you from early stage of development and pilot demonstration, to a successful system commissioning.

Benefits of KMS High Recovery RO Systems

- Proven performance record in the most demanding applications
- Compact design
- High recovery, up to 95%
- Simple to operate, reliable and dependable
- Supported 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



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