

PURON[®] MP System

Virtually Unbreakable Hollow Fiber Ultrafiltration

Advanced Membrane Filtration for Water Purification



KOCH[™]
SEPARATION SOLUTIONS

Separation Technologies for a Better Future[™]

Effective Solution for High-Quality Water

Over 50 Years of Membrane Experience

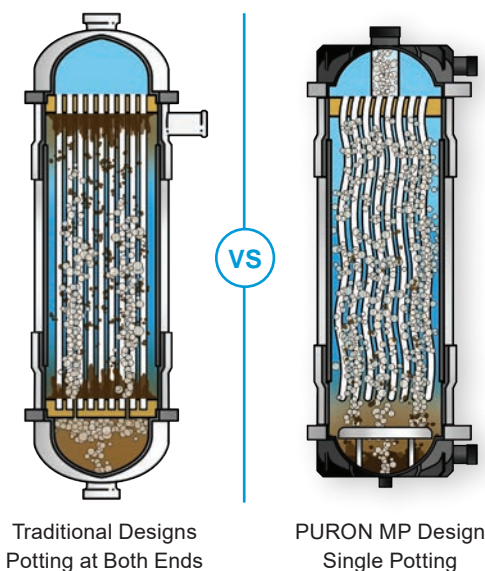
Koch Separation Solutions (KSS) is a global leader in membrane filtration technologies with over 50 years of membrane experience and thousands of system installations worldwide. The PURON® MP system, equipped with PURON MP pressurized hollow fiber cartridges, is designed to treat a variety of water and wastewater with high amounts of suspended solids in both municipal and industrial settings. The skid-mounted system offers a complete and cost-effective solution to consistently provide high-quality effluent, meeting most stringent quality regulations.

PURON MP Hollow Fiber Membrane

KSS is the only manufacturer of the industry-leading single potting hollow fiber design. This unique configuration allows the membrane fibers to move freely within the cartridge, permitting aeration to penetrate the fiber bundle and eliminate buildup to effectively increase active membrane area and overall performance.

The tight ultrafiltration pore size at 0.03 micron and narrow pore size distribution result in the PURON MP

membrane's high flux tolerance, up to 60 gfd (100 l/mh), and high solids tolerance, up to 1,000 mg/L. PURON MP hollow fiber cartridges are constructed with polyester reinforced PVDF membranes, making the fibers virtually unbreakable. The robust design of these membranes allows for uninterrupted operation, lower maintenance costs, and reduced manpower for fiber repair.



Benefits

- High flux and solids tolerance eliminate need for costly pretreatment
- Robust and virtually unbreakable fibers reduce downtime and maintenance requirements
- Unique single potting design reduces buildup and “fiber sludge”
- Superior membrane chemistry and tight pore structure deliver stable membrane performance without the need for extensive chemical cleans
- Optimized design and operation to lower capital and operating costs

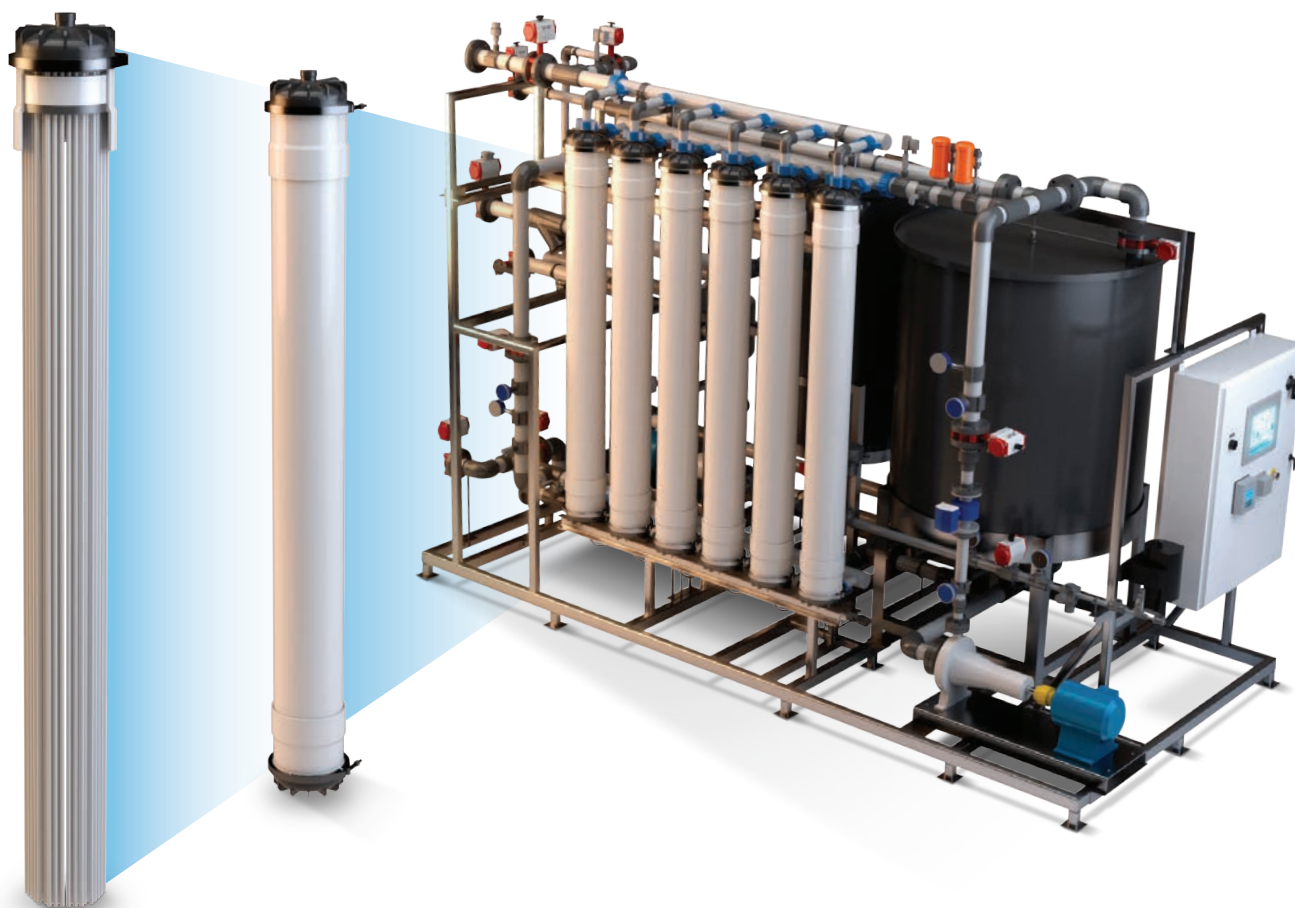
Virtually Unbreakable Hollow Fiber Ultrafiltration

PURON® MP System

The PURON MP ultrafiltration system is available in two standard pre-engineered package system sizes, with either 6 or 10 cartridges, and three standard modular system sizes, ranging from 24 to 64 cartridges. The simple design allows for easy installation and operation and requires minimal system connections, lowering capital costs. The PURON MP modular system can also be custom-designed and is scalable to meet a variety of capacity and performance requirements.

Applications

- **Industrial water:** Achieve high recoveries and remove suspended and colloidal solids while reducing footprint
- **Tertiary wastewater treatment:** Handle clarifier upsets with ease and tolerate high coagulant doses for phosphorus removal
- **Seawater pre-treatment:** Extend RO membrane life, reduce operating costs, and significantly decrease footprint
- **Potable water treatment:** Achieve greater than 4-log removal of Giardia and Crypto, treat turbid surface waters, and tolerate high coagulant doses for TOC/Color removal



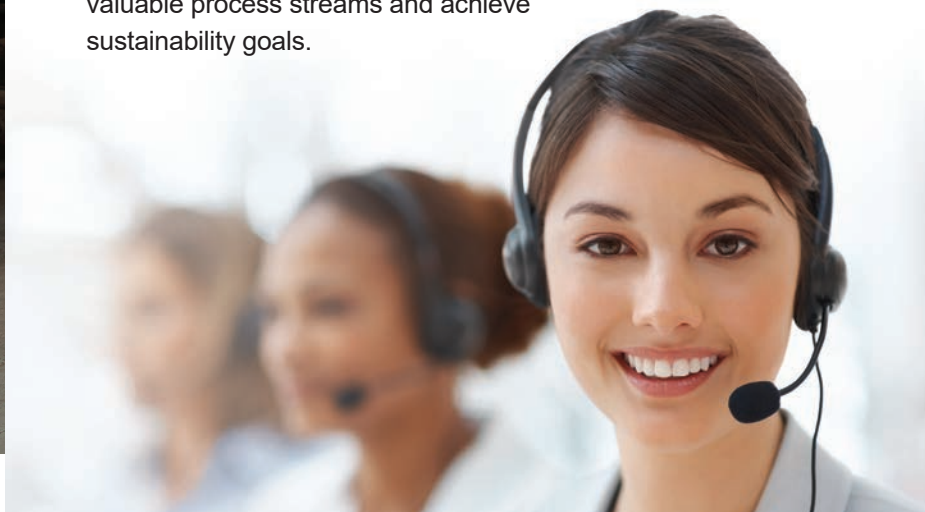
KSS ASSIST

KSS 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. KSS 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 Separation Solutions

Koch Separation Solutions (KSS) is a global leader in membrane filtration technologies with over 50 years of membrane experience. With best-in-class domain expertise, technology and systems, KSS is uniquely positioned to help customers purify and recover valuable process streams and achieve sustainability goals.



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