



MEMBRANE UPGRADES

FOR ENHANCED MBR PERFORMANCE

As part of Cloacina's expanded Site Services, we offer comprehensive Membrane Bioreactor (MBR) membrane upgrades and replacements for an optimized wastewater treatment experience.



WHY UPGRADE YOUR MBR SYSTEM'S MEMBRANES?

Prioritize preventive maintenance to enhance membrane performance, prolong lifespan, and ensure reliable, cost-effective wastewater treatment. Stay ahead of potential issues, minimize disruptions, and uphold regulatory standards with proactive care for your MBR system.

SIGNS IT'S TIME TO UPGRADE/REPLACE

- ▶ **PERFORMANCE DECLINE:** If permeate quality drops or transmembrane pressure rises significantly, membranes may be compromised and need replacement.
- ▶ **IRREPARABLE DAMAGE:** Visible physical or chemical damage calls for immediate membrane replacement.
- ▶ **STUBBORN FOULING/SCALING:** Persistent fouling or scaling, despite cleaning efforts, indicates potential membrane deterioration, requiring timely replacement.

FACTORS LEADING TO MEMBRANE FAILURE

- ▶ **MEMBRANE FOULING:** Accumulation of particles over time reduces filtration efficiency, necessitating replacement.
- ▶ **CHEMICAL DAMAGE:** Exposure to harsh chemicals can degrade membrane integrity, requiring replacement.
- ▶ **PHYSICAL DAMAGE:** Accidents or wear may compromise membrane integrity, necessitating prompt replacement.



EXPANSION AND CHANGING SYSTEM REQUIREMENTS

As your wastewater treatment system expands, upgrading membranes is essential to accommodate increased capacity, maintain efficiency and meet regulatory standards. Upgrading ensures a seamless transition to a more robust and scalable solution for evolving needs.

WHY CHOOSE CLOACINA FOR YOUR MEMBRANE UPGRADES?

EXPERTISE THAT MATTERS

Trust our skilled technicians with unparalleled expertise in MBR membrane technology to handle replacement with precision, ensuring optimal filtration and wastewater treatment. Cloacina is not a membrane company, we are an MBR package OEM so the customer will get an unbiased opinion on the best solution for their plant.

PREMIUM MEMBRANES, PROVEN RESULTS

Experience enhanced filtration efficiency, longer membrane lifespan, and improved system performance with top-tier MBR membranes known for durability and reliability.

MINIMIZED DOWNTIME, MAXIMIZED PRODUCTIVITY

Our streamlined process ensures swift and efficient membrane upgrades, minimizing downtime and allowing your MBR wastewater system to resume full functionality without unnecessary delays.

CUSTOMIZED SOLUTIONS FOR YOUR NEEDS

Tailored services to meet the unique requirements of your wastewater treatment facility, whether it's a small-scale upgrade or a large-scale overhaul.

COST-EFFECTIVE AND SUSTAINABLE

Designed for long-term cost savings, our services prioritize high-quality membranes and efficient replacement processes, aligning with environmental standards for sustainable wastewater management.



**CONTACT US FOR PRICING
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