



**CHEMICAL KINETICS**  
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# Integrated UF & RO Solutions for Industrial Water Management

**Process Water Treatment  
& Wastewater  
Recovery Solutions**

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# Advanced Solutions for Industrial Water Treatment

## Ultra Filtration Plant for the Pre-Treatment of RO

**Chemical Kinetics** provides engineered Ultrafiltration (UF) plants specifically designed for RO pre-treatment applications. These systems effectively remove suspended solids, bacteria, and colloidal matter using high-performance membrane technology, ensuring consistently low-turbidity feed water. By protecting RO membranes from fouling and damage,

our UF solutions enhance system reliability, improve recovery, and extend membrane life. Compact, energy-efficient designs make them ideal for industrial water treatment, wastewater recycling, and reuse applications requiring stable, long-term performance.



## Pre-Filtration (Sand Filters) Systems

**Chemical Kinetics** provides robust pre-filtration sand filter systems for effective reduction of turbidity, suspended solids, and particulate load in raw water. These systems serve as a critical first barrier, protecting advanced treatment stages, improving operational reliability, and minimizing fouling. Designed for industrial duty, they ensure stable feed water quality and reduced maintenance across water treatment processes.



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# Precision Engineering for Sustainable Operations.

## Reverse Osmosis (RO) Systems

**Chemical Kinetics** design and manufacture high-performance Reverse Osmosis (RO) plants with capacities up to 150 m<sup>3</sup>/hr for sea and brackish water applications. These advanced systems effectively remove dissolved salts, organics, and impurities to deliver consistent, industrial-quality water.

Engineered for optimized recovery and stable operation, our RO plants ensure long membrane life, energy efficiency, reduced operating and maintenance costs, and reliable performance across diverse industrial sectors and demanding operating conditions.



## Containerized RO Plants

**Chemical Kinetics** also offers containerized RO plants as fully pre-installed, portable, and weatherproof units engineered for fast and efficient deployment. Designed specifically for remote locations and space-limited sites, these plug-and-play systems require minimal civil work and reduce installation time significantly.

Built within standard containers, they ensure safe operation in harsh environments. With capacities up to 150 m<sup>3</sup>/hr for sea and brackish water, these units deliver flexible, robust, and reliable water treatment solutions wherever continuous, high-quality water supply is required.



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