

Reverse Osmosis Service

MPW offers expert membrane cleaning, preventative maintenance and engineering support for reverse osmosis (RO) systems to improve the quality of your water. An expert senior engineer who is specifically assigned to your site also provides data tracking and trend analysis. MPW administers regularly scheduled visits by a technician who is available for assistance 24-hours a day. Quality ensured service is provided for all RO system applications including industrial process water, power generation, and municipal water.

MPW increases capacity, flow rate and quality for any size RO system by performing evaluations and consultations on-site or by performing analyses and membrane autopsies at MPW's nearest facility. To assess current issues and produce recommendations, one of MPW's senior level engineers will personally visit your site to ensure a complete understanding of your system and provide the personal attention that you deserve. This level of attention and detail will allow MPW to design and implement improvements, and provide accurate guidance to forecast future outages.

MPW offers a complete line of replacement membranes, filter media and resin along with refurbishing and repairing reverse osmosis systems. For over 30 years, MPW has expertly crafted custom designed industrial equipment and water treatment systems. Associates restore or modify equipment on-site or at our fabrication facilities. Engineering and repair services include piping and valve repair, painting, and component replacement and additions.



With MPW's expert RO cleaning, membranes benefit from individual care that thoroughly addresses the quality of the membrane.



MPW refurbishes and repairs reverse osmosis systems to increase system performance and reduce downtime.

Contact your local MPW Representative today for more information on MPW's Reverse Osmosis service capabilities.



Membrane Cleaning

MPW administers eight-inch membrane cleaning using a proprietary system for off-site restoration and testing. During off-site professional cleaning, MPW collects the membranes and transports them to our nearest facility. Following an initial diagnostic test, the membranes are cleaned and restored to their best possible condition. Each membrane receives a comprehensive quality assurance report detailing the enhanced performance. The membrane is then professionally preserved, bagged, boxed and palletized to uphold its integrity for secure transportation and storage.



Over time membrane efficiency decreases, even with standard cleanings. With MPW's off-site cleaning service, your membranes can be restored to their best possible condition.

Benefits of Off-site Professional Membrane Cleaning:

- Reduces system downtime
- Increases system performance
- Guarantees individual membrane quality
- Eliminates on-site chemical waste
- Identifies damaged membranes for prompt and easy replacement

Preventative Maintenance

Preventative maintenance includes regularly scheduled visits by an expert technician who will replace disposal filter media, check the operation of every system component, measure the system performance, and make system adjustments. The technician communicates the operational status check to the customer and generates a monthly operational report derived from the system logs. In addition to summarizing the system's performance, the operational report contains a long-term trend analysis that measures normalized permeate flow, salt rejection, recovery and a myriad of other useful data points. The analysis forecasts cleaning and replacement schedules that address fouling, scaling and impending membrane damage that is often undetected.



Extreme membrane damage is only discovered through MPW's in-depth membrane analysis. Irreversible damage was caused to the membrane shown here by improper system operation. MPW's preventative maintenance program prevents this costly damage.



As shown in this cross section view of a fouled membrane, if a membrane is not maintained properly, damage can occur in a matter of weeks.

