

Integrated Dual Membrane (2Mi) Water Treatment Solutions

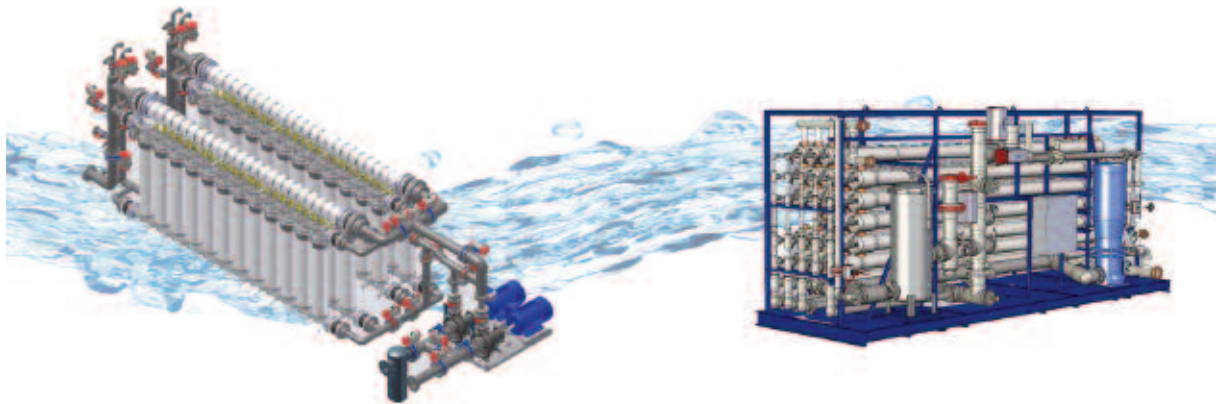
All industrial processes require a water treatment system that consistently produces high quality water. Most also need the ability to adapt to variable feed water conditions to achieve consistent, smooth operations. To accomplish this, membrane technologies can be combined for an integrated dual membrane (2Mi) approach, with the following results:

- Consistent, high water quality
- Reduced labor and operating costs
- Virtually no chemicals required
- Reductions in energy costs with reduced carbon footprint
- Reduced spatial footprint opens plot space for other uses

The Siemens Integrated Dual Membrane Approach

Step 1: Ultrafiltration membrane systems (such as the Memcor® CP or XP systems) protect and extend the life of downstream equipment and are ideal for handling seasonal changes and variable feed. Unlike conventional filtration methods, which are typically unable to react quickly to fluctuations in feed water conditions, ultrafiltration membranes provide a verifiable physical barrier for consistent, more reliable removal of suspended solids, making them better suited for these conditions. Additionally, ultrafiltration membrane systems come in a compact design and can replace multiple steps of conventional filtration, saving valuable plant space for other needs.

Step 2: Vantage® reverse osmosis (RO) separation systems produce high-quality product water for a variety of industrial and commercial applications. These pre-engineered, factory-assembled and tested RO skid design systems are easy to install and use. Additionally, the Vantage® RO systems come packed with many unique standard features that are typically add-on items in systems from other suppliers. Design permeate flows are available from 25 gpm to 694 gpm, offering the greatest flexibility possible from a standardized system. And as a third step, we can add on an Ionpure® continuous electrodeionization (CEDI) system, which uses a chemical-free deionization process that is superior to mixed bed ion exchange systems.





Features and benefits of our ultrafiltration (UF) systems include:

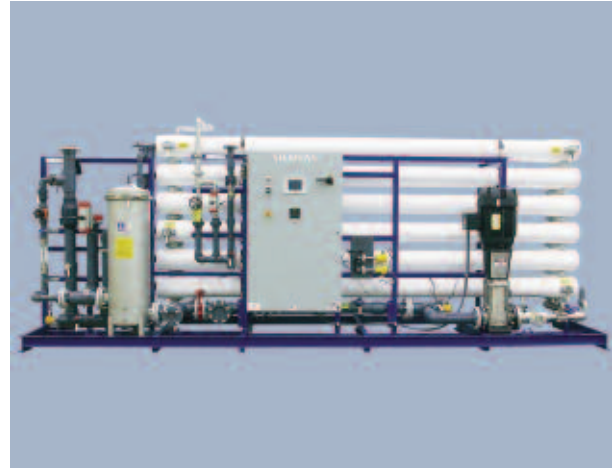
- A physical, verifiable barrier to remove suspended solids
- Consistent water quality independent of feed water conditions
- Smaller footprint by replacing multiple steps of conventional filtration methods with one filtration step
- Minimized installation costs with pre-engineered and pre-assembled units

Industries Served

- Municipal
- Power Generation
- Oil & Gas
- Bio-fuels
- Microelectronics
- Pulp & Paper
- Marine

Applications

- Wastewater Reclaim
- Boiler Feed Make-Up
- Grey-water Reuse



Features and benefits of our Vantage® RO systems include:

- Easy to use, feature-packed, pre-engineered and factory-assembled RO skid designs
- Full suite of instrumentation monitors system performance including flow rates, pressure, pH/ORP, feed and permeate conductivity
- Intuitive touch-screen controls can easily be integrated into overall plant supervisory systems for remote monitoring
- Variable Frequency Drive (VFD) controlled feed pump saves energy
- Variety of membrane choices including low energy membranes for certain applications

Standard Skid Sizes			
Model	2Mi – 100	2Mi – 200	2Mi – 400
Permeate Flow	100 gpm (379 l/m)	200 gpm (757 l/m)	400 gpm (1514 l/m)
UF	XPMR 30	XPMR 42	CP 84
RO	M84-024	M84-0480	M86-090

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