

# Membrane Systems Series 82, 83 and 86



## Cost-Effective Water Purification

Membrane filtration has been proven to offer cost-effective purification of water for a variety of applications. Creating water solutions for more than 20 years, Crown Solutions offers membrane technology for industrial processes including:

- › Purifying process water
- › Providing high purity water to utility systems
- › Treating wastewater streams for recycling and reuse

**Crown Solutions' membrane systems are delivered fully assembled on skids and are factory tested to minimize installation costs and simplify start-up. With three design sizes: Series 82, 83 and 86, the membrane systems are designed for flow rates ranging from 10 gpm to more than 1000 gpm. To further customize the systems, the designs can use a variety of membranes, including ultra filtration, nanofiltration and reverse osmosis membranes.**

**Ultra Filtration (UF)** membranes remove sub-micron sized particles and high molecular weight organics from water streams.

**Nanofiltration (NF)** membranes remove in excess of 98% of divalent dissolved solids, as well as a significant amount of monovalent species.

**Reverse Osmosis (RO)** membranes remove 99% or more of all dissolved solids.

### Benefits that Make a Difference

- › Minimized capital costs with membrane housing that hold six standard 8-inch diameter RO membranes or four standard UF membranes.
- › Built-in Clean-In-Place (CIP) provisions for each stage for more effective cleanings.



**Series 86 Membrane Systems** treat flow rates from 25 to 1000+ gpm and can be designed using ultra filtration, nanofiltration and reverse osmosis membranes.

- › Pressure indication at all critical points for tracking system performance, which extends the life of system components.
- › Industrial Programmable Logic Control (PLC) with operator interface allows for reliable, flexible operation.
- › Automatic periodic flushing of system helps maintain optimal membrane performance
- › Prefilter housing included on all RO and NF systems for pump and membrane protection.
- › True flow control valves ensure stable flows and minimize vibration and noise.

### Options

- › CIP piping and pump integrated into skid
- › Motor starters and electrical disconnects
- › External communications
- › Single skid for multiple systems
- › Two pass designs



Solutions & Technologies

# Membrane Systems Series 82, 83 and 86

## **Series 83 Membrane Systems**

*treat flow rates from 25 to 100+ gpm and can be designed using ultra filtration, nanofiltration, and reverse osmosis membranes.*



## **Series 82 Membrane Systems**

*treat flow rates from 10 to 25 gpm and can be designed using nanofiltration and reverse osmosis membranes.*



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