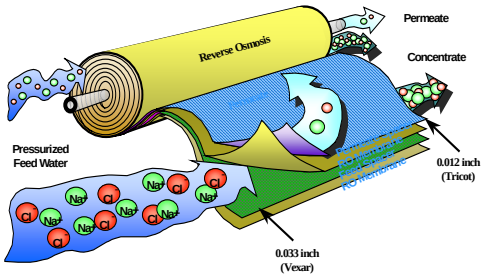
Reverse Osmosis Systems

Applied Water Solutions offers a wide range of reverse osmosis systems with options that can meet all specification of the client. These systems are fully skidded and can be started in hours, not days. Typical system specifications:

***Reverse Osmosis*:** The reverse osmosis system shall be capable of removing 95 to 98 percent of the dissolved minerals and at least 99 percent of the bacteria, particles and organics (including pyrogens) having a molecular weight greater than 250. The membranes shall be of TFC or polyamide construction for operation using feed water with a pH in the range of 2 to 12 and a maximum temperature of 104^0 F. The unit shall be designed to provide a minimum of 70% overall operational efficiency. All unit functions shall be controlled through a central microprocessor with integrated monitoring and control of the following provided unit features:

- Continuous level control system capable of monitoring storage tank level with user selectable unit start/stop points.
- Complete integration, control and interlock with all other system components
- Automatic monitoring, alarming and unit shutdown on low/high pressure, high temperature, low quality, pump failure, low pneumatic air pressure and required unit cleaning and maintenance.
- Indicators shall be provided to allow for monitoring of the following system parameters:
    - Product and reject stream flow
    - Unit operational pressures
    - Unit operational temperatures
    - Unit feed and outlet water quality

The unit shall also be provided with a high velocity forward flush cycle, which shall automatically initiate at user selectable intervals of unit inactivity. All required membrane cleaning and/or sanitization connections shall be provided for easy unit maintenance.



Graphic of RO Element

8" and 4" RO Element

Two Stage Reverse Osmosis System