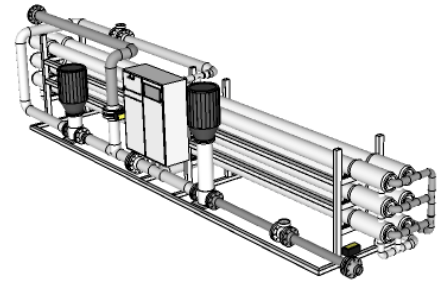


Finally, a unique process that when applied to reverse osmosis systems, maximizes recovery, reduces equipment costs, reduces membrane fouling and scaling, provides unmatched operational flexibility, reduces energy requirement and reduces capital cost. It comes in both pre-engineered packages for plug and play installations as well as engineered systems for your unique needs. And best of all, the technology can be applied to your existing RO systems as a retrofit.



### **Maximum Recovery**

Brine disposal in industrial RO applications can be exceedingly expensive. Any Desalitech unit can attain ultimate recovery in a single stage, thereby minimizing source water waste, pretreatment costs, brine disposal expenses and extra equipment costs. Recovery is limited only by the scaling characteristics of the specific source water, and even this limitation is addressed by the salinity cycling that enables CCD systems to achieve much higher recovery rates than conventional RO systems. Desalitech's RO units have desalinated low salinity industrial water sources at over 97% recovery.

### **Reduced Equipment Costs**

As a result of needing fewer membrane elements and doing away with multiple stages and boosters systems, capital costs can be dramatically reduced.

### **Reduced Membrane Fouling and Scaling**

The high cross-flow and brine salinity cycling inherent in the CCD process inhibit fouling and scaling, resulting in decreased maintenance procedures and expenses and enhanced system reliability. This is important for any RO unit, and especially important for high recovery and water reuse systems.

Reduced Equipment Costs

### **Unmatched Operational Flexibility**

Process flexibility is especially important for the variable salinity sources and variable operating conditions typically found in many industrial water treatment applications. Desalitech industrial units have operated continuously and automatically in situations characterized by intense seasonal variations.

### **Reduced Energy Consumption**

Desalitech industrial systems reduce energy consumption by 35% compared to modern conventional desalination systems.

### **Retrofit Option**

Desalitech offers the opportunity for you to reduce your current reverse osmosis operating costs. Just supply us with some minimal data and let us go to work.

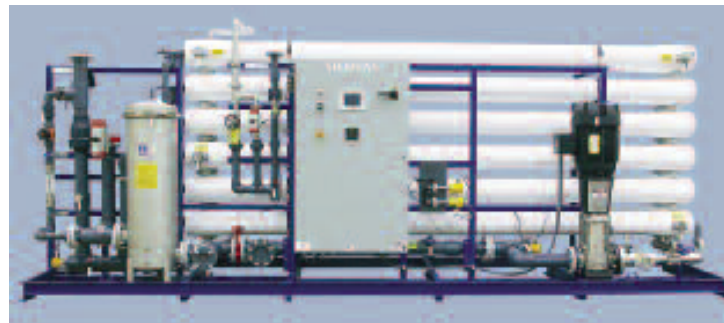
## Packaged Reverse Osmosis Systems

Desalitech's Closed Circuit Desalination (CCD™) RO systems extract purified water from industrial, brackish and wastewater sources. Packaged plug-and-play units are designed to produce permeate at flow rates of up to 800 gpm (4,400 m<sup>3</sup>/d).

### BWRO-CCD™ Models\*

BW-50	30 to 60 gpm (165 to 330 m <sup>3</sup> /d)
BW-100	60 to 120 gpm (330 to 650 m <sup>3</sup> /d)
BW-200	100 to 200 gpm (550 to 1,100 m <sup>3</sup> /d)
BW-400	200 to 400 gpm (1,100 to 2,200 m <sup>3</sup> /d)
BW-800	400 to 800 gpm (2,200 to 4,400 m <sup>3</sup> /d)

- Premium brackish water RO membranes.
- Patented high-recovery, low-fouling and low-energy consumption features.
- Programmable logic controller with remote-monitoring functionality.
- Automatic response to feed variations.
- Adjustable recovery – up to 98%.
- Clean-in-Place (CIP) and flushing



## Operating Parameters

Recovery	80 – 98%
Rejection	95 – 99%
Feed TDS	0 – 10,000 mg/L
Temperatures	2-45C (36-113 F)
Max Pressure	31 bar (450 psi)



\*Maximum permeate production capacity depends upon source water salinity and design flux.