

ReFlex Max™ Reverse Osmosis

Seawater & Brine Concentration Applications



Desalitech ReFlex™ Max Reverse Osmosis systems are highly efficient water purification systems ideal for brine concentration and seawater desalination. ReFlex Max RO is backed by Desalitech's maximum recovery guarantee.

Featuring Desalitech's patented Closed Circuit Desalination (CCD™) technology, ReFlex Max RO products extract purified water from industrial, brackish, seawater and wastewater sources. They use only standard off-the-shelf RO membranes and components configured in a smart new way that gives the operator direct control of recovery rate, cross flow and flux.

Flexible operation and resistance to scaling and fouling greatly improve the reliability of ReFlex Max RO systems. Operators can easily and automatically cope with variations in feed water and operational requirements, optimize process performance and minimize costs on a day-to-day basis. In the future, this flexibility can be used to maximize the performance of improved membranes or water pretreatments. By choosing a ReFlex solution now, countless future concerns and compromises can be avoided.

Desalitech guarantees maximum recovery. 75% less water waste. 35% lower energy consumption. Unmatched reliability and flexibility.

Available for sale or pay-by-the-gallon (Build Own Operate).

Standard Features

- Maximum Recovery - Guaranteed.
- Patented high recovery, low fouling/scaling, low energy consumption performance.
- Adjustable recovery – up to 98%.
- Automatic response to feed variations.
- Premium seawater RO membranes.
- Programmable logic controller with remote monitoring and control functionality.
- Chemical dosing systems.
- NSF-certified components.

Optional Features

- Ultra-filtration or multi-media filtration.
- Mixed-bed permeate polishing.
- Transfer pumps, storage tanks.
- Clean-in-Place (CIP) and flushing systems.

Operating Parameters

- Adjustable Recovery: 40-98%
- Rejection: 95.0-99.5%
- Adjustable Flux: 6-25 gfd (10-42 l/mh)
- Feed TDS: 5,000 - 70,000 mg/L
- Temperature: 36-113F (2-45C)
- Max Pressure: 1,200 psi (83 bar)
- Inlet Pressure: 10-60 psi (0.8-4.0 bar)

Materials of Construction

- High-Pressure Piping - SS / Duplex / SD
- Low-Pressure Piping - PVC Sch.80
- Frame - Epoxy Painted Carbon Steel
- Enclosure - Nema 4
- Clamps/Races - Galvanized steel
- Membrane Elements - TFC

Membrane Options

- 440 ft2 (std), 400 ft2 or 380 ft2
- 28 mil feed spacer (std) or 34 mil
- Low energy or high rejection
- Housings FRP, SS / Duplex / SD ports

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