

Flex EDR Selective

Extreme recovery membrane system. Remove ionic scale recovery limits.

Saltworks' Flex EDR Selective hybridizes with Reverse Osmosis (RO) to permanently separate scaling ion pairs into non-scaling pairs: enabling extreme recoveries on previously scale limited waters.

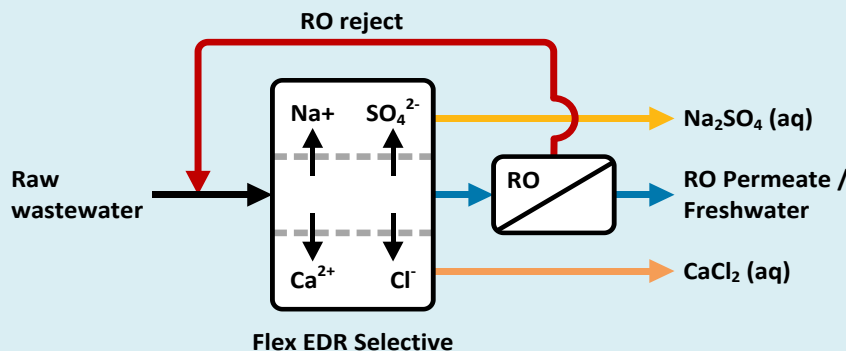
Quick facts

- Leverage RO's strengths
- Permanently remove scaling limits
- Change scaling CaSO_4 into non-scaling CaCl_2 and Na_2SO_4 . Similar with other multivalent ion pairs.
- Concentrate brines to over 200,000 mg/L, territory normally reserved for evaporators
- Saltworks' monovalent ion exchange membranes
- Utilizes Saltworks' Flex EDR modular, skidded platform; fully automated and self-cleaning

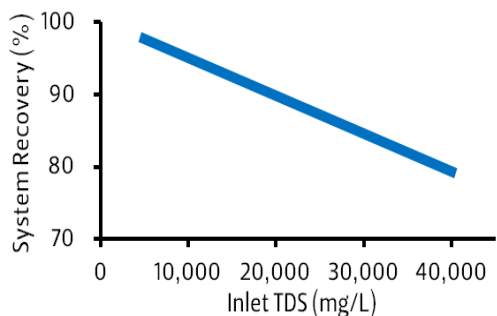
Advantages over chemically softened RO

- Eliminate expensive soda ash softening
- Higher recovery, 1/3rd the brine for many previously scale limited waters
- 45% cost savings compared to conventional treatment
- Output brines are non-scaling for downstream brine treatment
- Less solids, less hazardous waste. Recover Na_2SO_4 for reuse, CaCl_2 for solidification.

Salt Splitter-RO process: split scaling feed into non-scaling streams



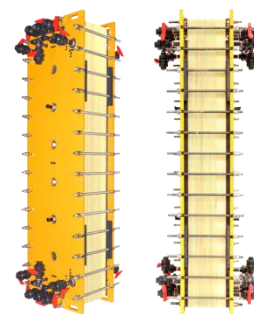
Flex EDR Selective-RO recovery vs. inlet TDS



IonFlux robust monovalent ion exchange membranes



Full scale stack



Contact projects@saltworkstech.com for a Salt Splitter performance and economic assessment. View our case studies: <http://www.saltworkstech.com/resources>