

Resource Recovery Solutions from FTS H₂O

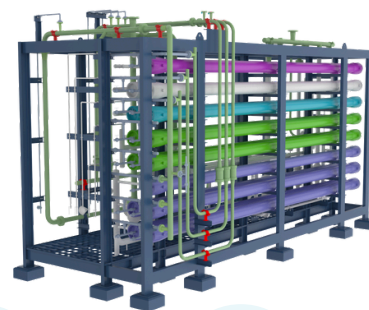
Aquatech's Center of Excellence for Membrane-Based Brine Concentration

Fully-Integrated Process Systems

RecovOAR™

Osmotically Assisted Reverse Osmosis (OARO)

RecovOAR™ incorporates OARO technology into a fully integrated end-to-end solution designed to maximize resource recovery and extract value from high-salinity industrial waste streams approaching 180,000 g/L TDS. Target applications include seawater brine mining and salt recovery, lithium processing, water recovery from produced water, and Zero Liquid Discharge (ZLD).



Brine
concentration to
>250 g/L TDS



Handles
monovalent, divalent
& mixed salts



Operates at
standard
SWRO range



Up to 100%
increase in
freshwater recovery



Optimizes
thermal
energy use

ConcentratOAR™

Forward Osmosis (FO) and OARO

ConcentratOAR™ incorporates FO and OARO technology into a fully integrated end-to-end solution designed to maximize resource recovery and extract value from high-fouling industrial waste streams. Target applications include nutrient recovery from biogas digestate, high-organic industrial wastewater treatment, landfill leachate treatment, and water recovery from mining waste.



Volume reduction
of challenging
streams



Water quality
comparable to
SWRO permeate



Resistant to
fouling, abrasions
& chlorine



75-90% water
recovery from
brine



Consumes
5-15 kWh/m³
of feed water

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Individual Membrane Elements

ROAR™ Reverse Osmosis Membrane

Osmotically Assisted Reverse Osmosis (OARO)

M-Series

ROAR™ M-series elements are progressive concentration membranes that treat monovalent salts. ROAR™ membrane elements are used in the RecovOAR™ integrated process.

D-Series

ROAR™ D-series elements are progressive concentration membranes that treat divalent salts. ROAR™ membrane elements are used in the RecovOAR™ integrated process.



COAR™ Forward Osmosis Membrane

Forward Osmosis (FO) and OARO

Industrial

COAR™ Industrial membrane elements are engineered to treat dirty wastewater that challenges conventional technologies. COAR™ elements are used in the ConcentratOAR™ integrated process.

Sanitary

COAR™ Sanitary membrane elements are engineered to concentrate gently to preserve product quality, flavor and overall value. COAR™ elements are used in the ConcentratOAR™ integrated process.

