



28 Years
Industrial
Wastewater



15 Years
Produced
Water

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aramco



VACOM 



IP Processes

- High-Rate Turbulent Flow
- Vapor Recompression
- Submerged Boiling
- Flash Evaporation
- Crystallization

Process Benefits

- Max Concentration
- Any TDS Feedstock
- No Fouling
- No Scaling
- Water Recovery

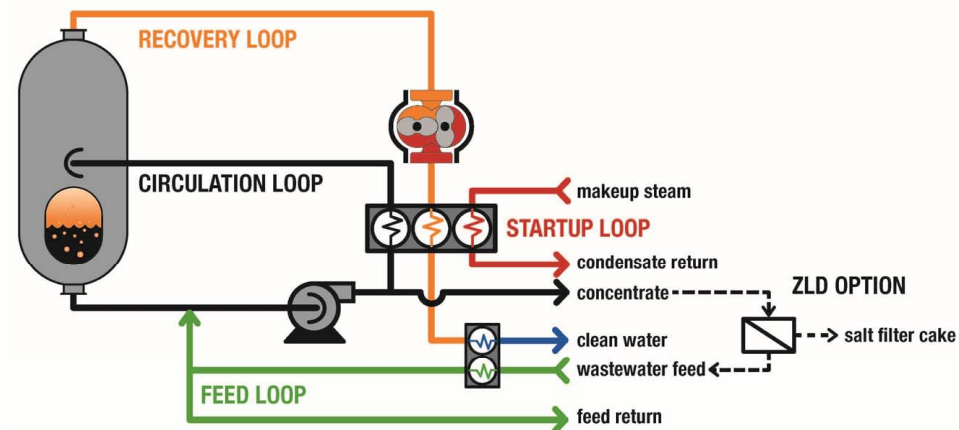
Distillate Capacity

- 1,000 - 160,000 GPD

Toyota, Caterpillar, Aisen-Warner, YKK, International Paper, MARTA, 212 Resources, Lockheed-Martin, Eaton, Nephron and many more...



How the System Works



- **THE FEED LOOP** automatically provides pre-heated feed to the system while cooling the distillate.
- **THE RECOVERY LOOP** condenses the evaporated steam into distillate while recovering the latent heat of evaporation.
- **THE STARTUP LOOP** provides initial heat to the system and optimizes efficiencies.
- **THE CIRCULATION LOOP** concentrates and crystallizes the wastewater within a highly turbulent flow and flashes steam in the vessel only. The result is a highly efficient, self-cleaning and non-scaling system.



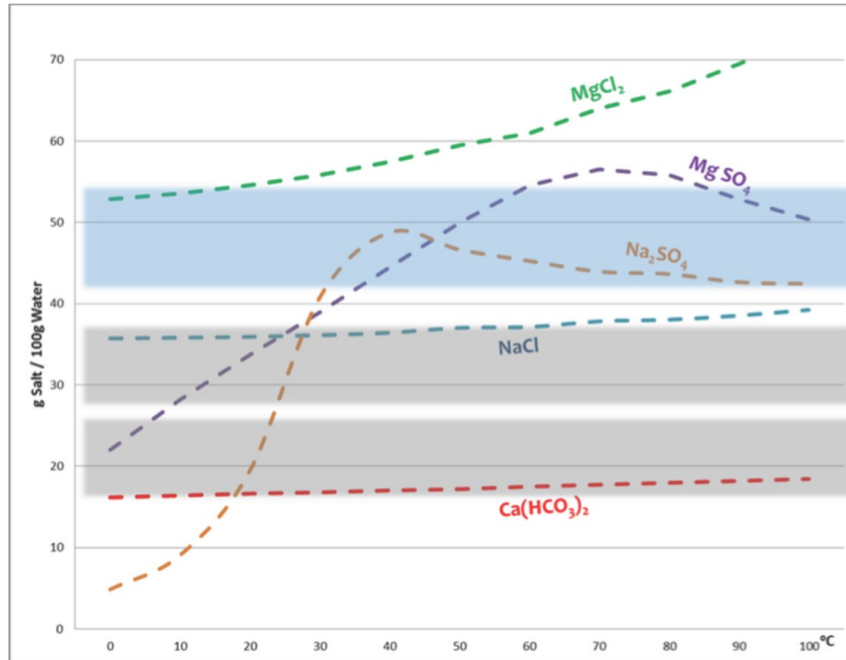
CLEAN WATER



DRY SALT



WE CRYSTALLIZE MORE SALTS
THAN ANY OTHER SYSTEM



VACOM
HIGHEST CONCENTRATION
OF ANY SYSTEM

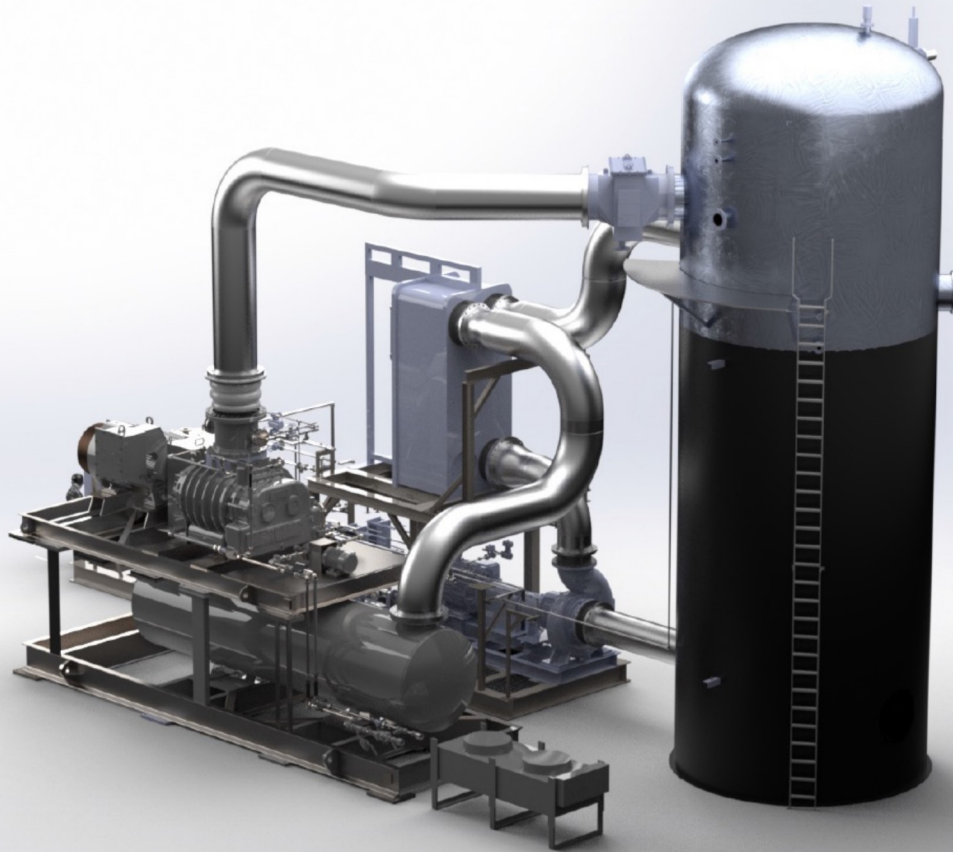
CRYSTALLIZERS

EVAPORATORS

Vacom Team Experience

- Equipment Sales
- Build - Own – Operate
- Technology Innovation
- Startups & Commissioning
- USA & International Experience





Vacom Prepares:

- P&IDs
- Mech drawings
- Elec. Drawings
- Piping isometrics
- Programming

Vacom purchases:

- All major equipment
- Manages subcontracts for skid and vessel assemblies



Alliance with Danfoss

26" Port Plate Exchangers – World's Largest



24/7 Providing Clean Water from Frac Operations



Flexible Site Configurations



Piceance Field Under Construction



Colorado Piceance Field





China Biejiang Power 4000 MW FGD Scrubber Management



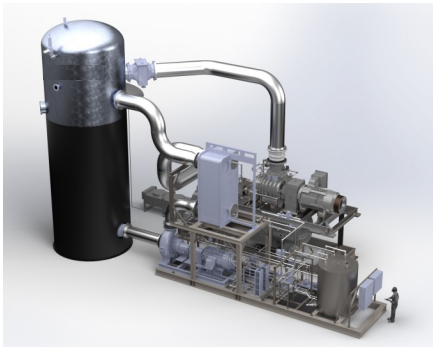


RO Reject ZLD
Xin Yue, China



Nephron Nitrile Glove Factory ZLD

Site Assembly



VACOM



SO SOPHISTICATED
it's simple.