

Put Your Wastewater to Work™

Fountain Quail's patented NOMAD™ system converts wastewater into surface discharge-quality freshwater. NOMAD™ technology creates a cost-effective, reusable source of freshwater for fracing and represents an environmentally favorable alternative to wastewater disposal in evaporation pits or injection wells. The skid-mounted NOMAD™ system was designed by Fountain Quail engineers to be modular, rugged, easy to maintain and employ the most energy-efficient thermal evaporator available in the market. Each NOMAD™ system is capable of generating 2,000 BPD of distilled freshwater. Fountain Quail has designed large capacity Modular Base Plant (MBP) Facilities with capacity ranging from 10,000 BPD to 60,000+ BPD.

For more than 20 years Fountain Quail has worked with leading operators to deploy the NOMAD™ system in major shale plays across the U.S. and Canada including the Marcellus, Barnett, Eagle Ford, and the Permian Basin. Our customers have realized water-specific cost savings of at least 30% and up to 80% depending on location.



Fountain Quail
ENERGY SERVICES

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NOMAD™

TREATMENT OBJECTIVE

- Pure distilled water for beneficial reuse or environmental discharge.
- Near complete TDS removal; bacteria eliminated.
- Secondary reuse product: clean, concentrated 10# brine.

TECHNICAL SPECIFICATIONS

- Feed Capacity: 2,500–4,000 BPD*
- Distillate Capacity: 2,000 BPD
- Distillate: Average ppm TDS <100 ppm
- Distillate: Average ppm Cl <50 ppm
- MCF Required: 125 MCF/d
- Footprint: Three 12'-by-40' skids
- Electrical Demand: 100 kW

* Varies with TDS of feed water



"Our team has been thoroughly impressed by the mobility of your treatment solution, the water quality you are able to deliver, and the rate at which you deliver it"

Large E&P, Permian Basin

"Fountain Quail has our strong endorsement. They have the right technology and the right price. We made the right choice."

Pennsylvania Water Treatment Plant, Marcellus Shale (multiple NOMAD™ units installed at central water treatment plant)

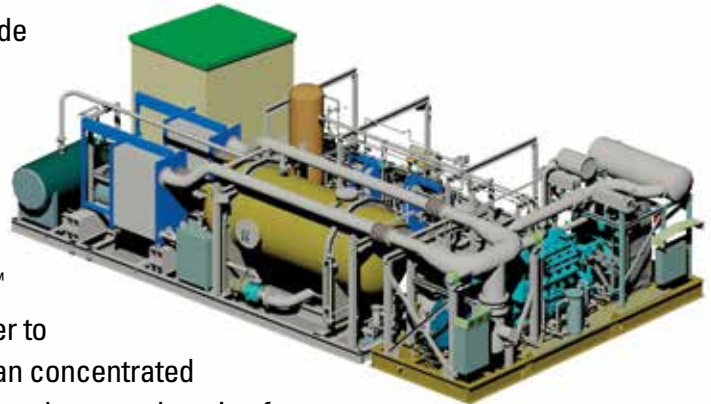
Reusable Freshwater at the Lowest Price

Desalination	TDS (Total Dissolved Solids) Removal	High Concentration (near saturation)	Compact & Strategically Relocatable	Freshwater meets drinking water spec (<500mg/L TDS)	Freshwater meets NPDES discharge specs (AR)	3rd party validation (GTI)	Proven Oilfield Experience (20+ years)
NOMAD™: Compact MVR Evaporation	●	●	●	●	●	●	●
Conventional Membrane (RO, EDR)	●		●				
Forward Osmosis Membrane (FO)	●	●	●				
Traditional MVR Evaporators	●	●	●	●	●		
Crystallizers	●	●		●	●		

- Complete
- Partial or Problematic

A Time-tested Freshwater Recycling Solution

The NOMAD™ is the only system with more than a decade of continuous duty generating distilled freshwater from produced water. The durable NOMAD™ consists of an evaporation unit, a power generation unit and an auxiliary support and control unit. Multiple units may be deployed at a single location. The system's 1,500 sf footprint consists of three 12' by 40' skids. The NOMAD™ process effectively distills wastewater, heating the water to separate clean brine from freshwater. The resulting clean concentrated



brine is pumped out of the unit to our customer's designated storage location for potential reuse in future hydraulic fracturing jobs while the distilled freshwater may be safely discharged or stored for reuse in field operations. We comply with all federal, state and local environmental regulations and stand at the ready to immediately respond to our customers' wastewater management needs.



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To learn more about our water management solutions visit www.fountainquail.com or contact us directly at info@fountainquail.com.