

ALTELARAIN® SYSTEM ARS-4000



The AltelaRain® System ARS-4000 provides a mobile, fully integrated water desalination/ decontamination solution to clean previously untreatable produced water. Unique to the ARS-4000 is its ability

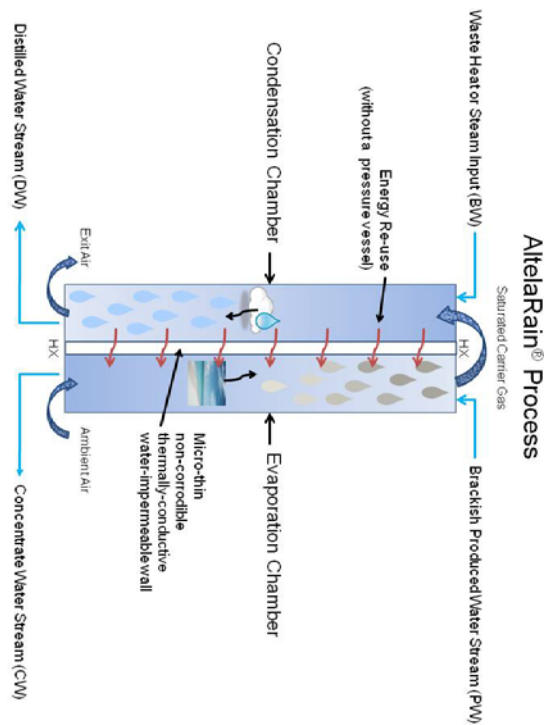
to treat the produced and frac water on-site, adjacent to each well-head, irrespective of varying water quality prevalent throughout the industry. Each ARS-4000 is contained in a standard 45' shipping container. The system treats 4,000 gallons per day GPD (100 BPD) of produced water. Following treatment, the clean water meets surface discharge standards and can also be used by the producer, thereby reducing freshwater demand at the well-site. Up to 90% of all disposal costs - 9 out of every 10 water-hauling truckloads - are eliminated on-site at the well-head with the AltelaRain® System ARS-4000.

ALTELARAIN® SYSTEM HIGHLIGHTS INCLUDE:

- Extremely high quality of treated water; less than 500 ppm TDS
- No pressure vessels; extremely safe
- Dramatically reduces water hauling/trucking costs
- Low relative cost
- High energy efficiency
- Unattended operation
- No fouling or scaling
- No membranes to replace
- Extremely safe operation at ambient pressure and low temperature
- Productive use of “free” waste heat or solar energy
- No pre- or post-treatment required
- Easily sized to location’s need
- Ability to operate in diverse geographies
- Service business model; no customer capital required



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OIL AND GAS INDUSTRY

AltelaRain® System ARS-4000



An exciting new technology to clean produced and frac water at the well-site.





A NEW SOLUTION FOR AN OLD PROBLEM



The AltelaRain® System allows highly challenged produced and frac water to be economically treated and cleaned on-site, can treat concentrated brine regardless of total dissolved solids (TDS) concentration, and can be

scaled according to treatment demand. This removes the customer's high disposal costs and environmental liability by the present oilfield methods.

HIGH PERFORMANCE STANDARDS

Oil and gas operators demand 24-hour-a-day, 7-day-a-week performance from their wells, and any equipment associated with well operation must meet this performance standard. Altela's systems are designed to be operated unattended on a continuous basis in the harsh oil and gas field environmental conditions and require minimal maintenance.

ALTELA IS DOING THIS, TODAY.....AND IT WORKS!!

Particularly, in the burgeoning Marcellus, Altela has received PA Department of Environmental Protection approval to deploy and treat frac flow back and related produced water. The first system is successfully treating highly challenged frac flow back water to distilled water standards. AltelaRain® Systems have now successfully treated produced and frac water at multiple commercial sites including the Marcellus Shale of Pennsylvania, Piceance Gas Basin of Colorado, San Juan Basin of New Mexico, and Western Canada.

THE TECHNOLOGY: TREATING WATER NATURALLY

The basic Altela technology is a simple and elegant process based on thermal distillation, which desalinates and decontaminates salty and polluted water in a fundamentally different way than the more familiar reverse osmosis (RO) and other membrane-based desalination technologies. In simple terms, the technology mimics nature's process of making pure rain water from seawater. What positions it as the first, truly new and disruptive water desalination/decontamination technology in over 50 years, however, is a scientifically complex, but inexpensively implemented, internal heat transfer process that re-uses the heat of condensation over and over again.



Altela's process makes 3 gallons of clean water from the heat energy that would usually only make 1 gallon – through 300% energy-re-use – thus making Altela both a clean-tech energy and water technology company.

MAKING WATER FROM WASTE

The AltelaRain® System operates on low-grade waste heat or waste well-head gas, free in many locations, further lowering Altela's operating costs relative to competing high-pressure, high-electricity-cost technologies such as RO and mechanical vacuum compression. The system is robust: using no pressure, high temperatures, filters, or membranes – allowing it to be manufactured from inexpensive plastics rather than exotic and expensive metals.

Through Altela's professional services division, the company has successfully acquired precedent-setting environmental permits to discharge cleaned water (for irrigation, livestock use, aquifer recharge and in-stream water right flows) – and provide it back to the customer for frac and other well completion needs. These permits include EPA-based approval by the State of CO to discharge treated, clean water into the Colorado River; approval for beneficial re-use of treated, clean water in the Piceance Basin; the first-ever approval in New Mexico to surface discharge treated, clean water for re-use; the first-ever EPA-based approval for a centralized waste treatment facility to treat produced water for in-stream flow and aquifer recharge through the publically owned treatment works (POTW); and the first-ever Navajo Nation environmental permit to surface discharge treated, clean water for the benefit of district grazing communities in northwestern New Mexico, saving the people in the region from having to travel hundreds of miles for clean water.



WE GROW WITH YOU, TREATING HIGHER VOLUMES

Not only is our AltelaRain® System available today, but Altela's proven core technology enables us to build scalable, dedicated plants that can grow along with your increasing treatment needs.

Let us help you convert contaminated water liabilities into clean water assets. For more information, please call 505.923.4140 or visit www.altelainc.com.