

CSS 2500 WATER TREATMENT SYSTEM



W-Industries' CSS 2500 Water Treatment System offers a cost effective and environmentally responsible alternative for produced water disposal.



Reduce Your Operating and Disposal Cost and Improve Your ESG Profile with W-Industries' CSS 2500 Water Treatment System

1

REDUCE WASTE WATER DISPOSAL COSTS

Our fully automated, proprietary technology uses wellhead gas that is normally flared to treat and evaporate produced and flowback water. This process minimizes the amount of water to be hauled off.

2

MINIMIZE ENVIRONMENTAL IMPACT

Our process reduces the volume of water injected into saltwater disposal wells, reduces the number of trucks required to haul off saltwater, and reduces flaring exposure and emissions.

3

RECOVER VALUABLE NATURAL RESOURCES

As part of the treatment process, hydrocarbons are separated from the produced water and returned to the client creating an additional source of revenue and preventing the waste of a valuable natural resource.

Applications

The CSS 2500 Water Treatment System is designed to process up to 2500 bbl/day of produced water and can be set in parallel to provide increased flow capacity to meet client needs. This flexibility allows for deployment of a single unit on smaller sites or the system may be scaled to provide multiple units, increasing max total flow for a central processing facility. Our system is an ideal solution for produced water disposal at remote locations that lack existing infrastructure.

CSS 2500 WATER TREATMENT SYSTEM

Benefits

We can drastically reduce your wastewater disposal cost while also being environmentally responsible. Our fully-automated, proprietary technology is easily transported to your location, has a small footprint and can be set up and fully operational in a short time.

Benefits	Results
• Reduces the volume of water injected into saltwater disposal wells	» Reduction of disposal cost » Alternative to increasingly tougher regulatory permitting requirements for new SWD wells » Lowers risk of seismic events associated with SWD well injection
• Reduces transportation exposure by reducing the volume of water through evaporation	» Less trucks on the road hauling saltwater » Reduction of transportation cost » Reduction in truck related emissions » Safer roadways » Less traffic » Better quality roadways
• Uses gas produced at the wellhead as a fuel source	» The recovery and use of flared gas has several environmental and economic benefits » Eliminates the waste of a valuable natural resource » Reduces flaring » Reduces air pollution and gas emissions » Reduces noise and thermal radiation » Reduces operating and maintenance costs



CSS 2500 WATER TREATMENT SYSTEM

Reduce Your Operating & Disposal Cost and Improve Your ESG Profile

Benefits	Results
• Separates hydrocarbons from the produced water and returns the hydrocarbon to the customer	» Ensures maximum hydrocarbon recovery » Prevents the waste of a valuable natural resource » Creates an additional source of revenue that would have otherwise been injected into a SWD well
• Returns water to the water cycle through evaporation or recycling of treated water	» Generates fresh water for future beneficial use » Reduces amount of fresh water taken from the water table for Oil & Gas Operations » Reduces water acquisition cost
• Flexible deployment options	» Mobile » Self contained » Scalable
• Fully-automated system	» Remotely operated and monitored » Safe to operate » Minimizes personnel cost



CSS 2500 WATER TREATMENT SYSTEM

Process

Fully-Automated, Remotely-Operated and Monitored Multi-Stage System

DAF Cell - Separates hydrocarbons and suspended solids from the produced water and returns the hydrocarbon to the customer.

Filter Package - Removes contaminants and additional suspended solids along with any remaining hydrocarbons from the water.

Thermal Cell - Evaporates the treated clean water.

This stage drastically reduces the volume of produced water leaving only a concentrated brine to be hauled off for disposal or reuse.

Re-condensing Unit (Optional) - Captures the clean steam then uses a passive cooling process to condense the steam and turn it into recycled clean water for reuse.

Packaging

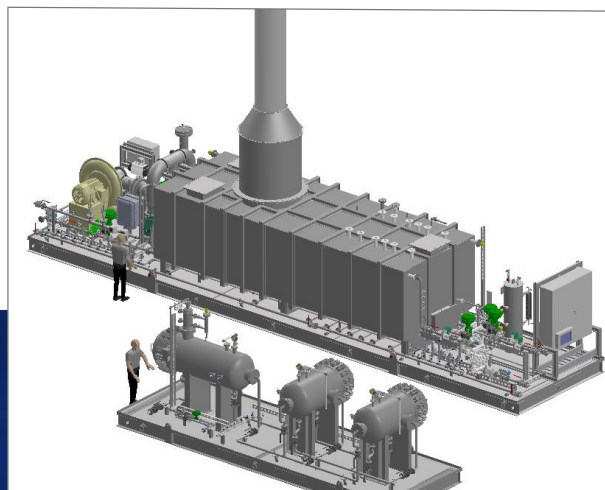
- Entire system is truckable
- Scalable and modular
- Quickly sets up on site for temporary or long-term operation
- Ideal for produced water disposal at remote locations lacking existing infrastructure

Technical Specifications

- » Processing Capacity - Up to 2500 bbl/day
- » Burners - Two (2) 20,000,000 btu/hr (40,000,000 btu/hr total)
 - » Fuel Consumption (Burn Rate) - 850 mcf/day at Max. Run
- » Required Power
 - » 200 Amp 480 VAC, 3 phase, 60 Hz
- » Air Compressor - 40hp Compressor, 150cfm, 125psi, 200 Gallon Tank, Skid Mounted

Dimensions

- » **Main Thermal Unit**
Length: 50' | Width: 10'10" | Height: 8'4"
Stack Height: 43'4" | Weight: @70,000 lbs
- » **Filter Unit**
Length: 28' | Width: 9' | Height: 11'
Weight: @35,000 lbs
- » **Air Compressor**
Length: 12' | Width: 5' | Height: 8'
Weight: @5000 lbs
- » **Re-Condensing Unit (Optional)**
Length: 45' | Width: 10' | Height: 10'
Stack Height: 14'6" | Weight: @110,000 lbs



LOCATIONS

W-Industries Headquarters - Houston, TX
 W-Industries Thora Lane - Houston, TX
 W-Industries South Texas - Pearsall, TX
 W-Industries West Texas - Pecos, TX
 W-Industries New Mexico - Carlsbad, NM

Volta - Houston, TX
 W-Industries Louisiana Corporate
 Office - Maurice, LA
 CCA - Corpus Christi, TX