

CleanSteam



Product Overview



Patent numbers: Canadian 2751,895; US and Foreign Patents Pending

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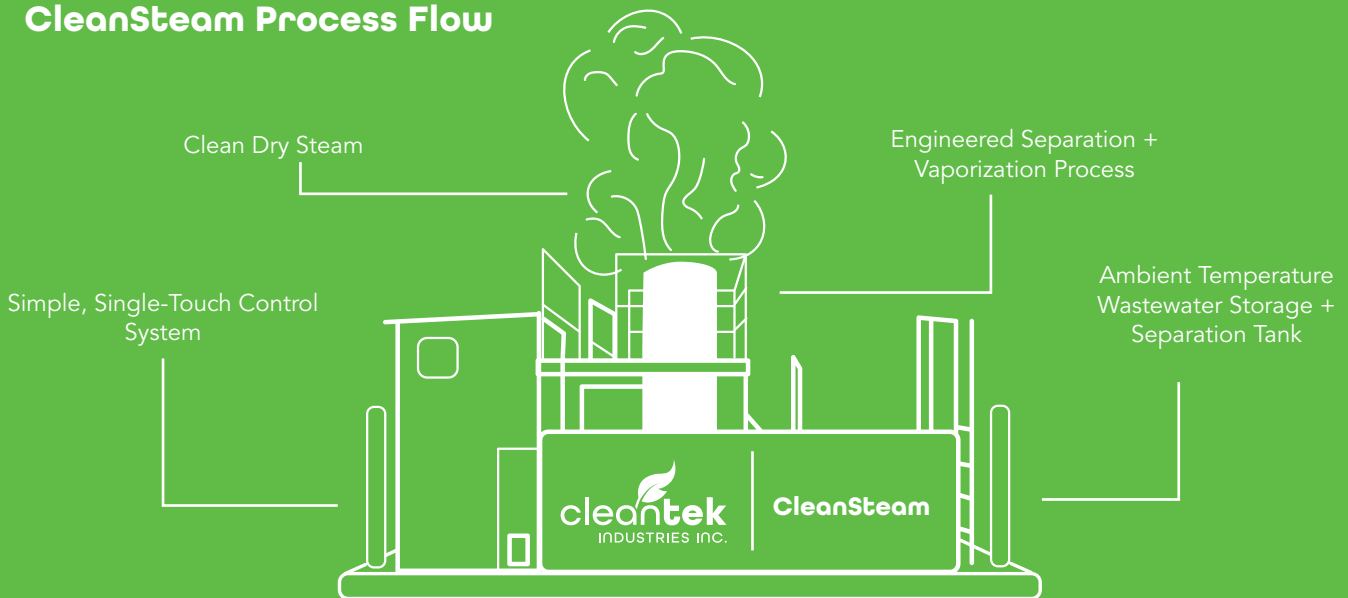
CleanSteam



CleanSteam™ employs a proprietary German-Engineered “Emissions Scrubbing/Thermal Separation” technology to separate and evaporate to atmosphere the pure water molecules within contaminated liquid.

The “Mist-Pad Layering” design prevents steam droplets containing oils, salts, or other contamination, from atmospheric discharge by cycling them back into the system until correct thermal separation is achieved.

CleanSteam Process Flow





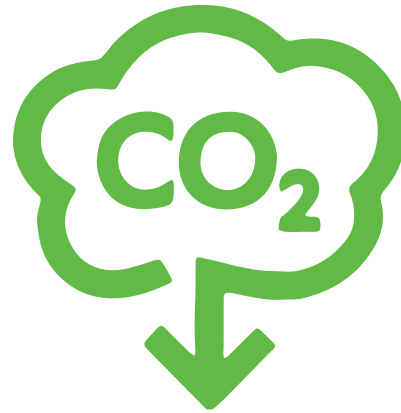
Environmental Benefits

Reduced Waste Water

Fewer trips to dispose of waste water means less risk of **off-location spills, accident or injury**, as well as **reduced heavy traffic** on roads



Reduced Environmental Footprint



Reduced Emissions

The CleanSteam Technology **scrubs the emissions** produced by the fuel source

Waste Streams Overview:

- Boiler blowdown
- Cement water
- Traces of Brine or Strip water are acceptable
- Lease/ditch water
- Run-off
- Wash water



Financial Benefits



85% LESS
WASTE WATER

Reduction in waste water to high-cost disposal facility



Reduced
Transportation Costs



Reduction in Pellet
and/or Sawdust

Operational Benefits

- ✓ Vaporization occurs within seconds of start-up
- ✓ Safe unmanned operations
- ✓ Simple cleaning process - No filtering or pretreatment required
- ✓ Automated control system with extensive sensor network, simple on/off functionality and remote monitoring
- ✓ Avoid excessive disposal expenses by managing waste at the wellsite in an efficient and effective manner

Features



Up to 8m³/50bbl Daily Throughput

Lower diesel consumption than any other waste water dehydrator in its class with very little maintenance required.



Significant ESG Benefits

The CleanSteam technology "scrubs" the emissions produced by the fuel source.



Reduced operational management

Less sawdust, pellets or disposal through injection to mitigate frequent traffic and offer savings by utilizing an on-site water reduction solution.

