



Water Treatment



Offshore ElectroCoagulation System

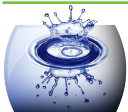
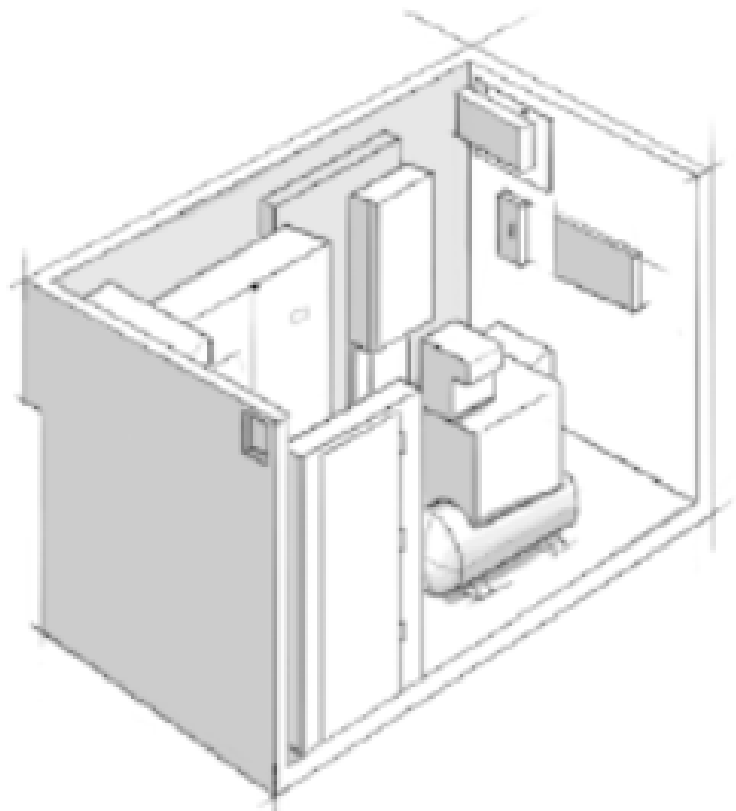
The ElectroCoagulation System (ECS) is a process that treats emulsions during offshore flowback's. Recent advances in electrolytic technology allow cost-effective treatment of complex flowback fluids and produced water. As electric current is applied through contaminated water based fluids, charged ions are released and remove undesirable contaminants either by chemical reaction and precipitation or by causing the colloidal particulate material to coalesce. These flocculated solids are then floated and skimmed off or precipitated out; emulsions are destabilized and broken allowing the oils to be skimmed off. Less waste is generated because an electrolytically generated floc tends to contain less bound water, is more shear resistant, and is easier to dewater.

Application

Destabilizes and coagulates suspended colloidal matter in destabilizes emulsions to allow water based fluid treatme

Features & Benefits

- Effectively breaks 100% of emulsions
- Works in conjunction with dispersed gas floatation (DG float out hydrocarbons and solids
- Reduces chemical demand for treatment
- Generates less solid waste
- Flexible for highly variable feeds
- Treats streams with variable concentrations and pH
- Portable units
- Removes complex organics and BETX
- Kills bacteria
- Small footprint, and designed for offshore platform use



TECHNICAL SPECIFICATIONS

Equipment	Offshore ECS
Dimensions (L x W x H)	12' x 8' x 9'9"
Weight (lbs.)	13,200
Maximum Flow	3.3 bbl./min (138 gpm)
Minimum Flow	0.3 bbl./min (14 gpm)
Maximum Inlet Pressure (psig)	90
Minimum Inlet Pressure (psig)	30
Maximum Temperature (°F)	120
Rectifier (1000 DC Amps) AC Requirement	480 Volt; 3 phase; 60 Hz; 110 Amp Service Size
Clean Instrument Air (psig)	120
Inlet/Outlet Connection	2"
Drain Connection	2"

Note: Temperature and pressure restriction are due to materials of construction on standard units. Different materials can be used to operate under different conditions.