

KOCKEN

SISTEMAS DE ENERGIA INC.

WATER TREATMENT



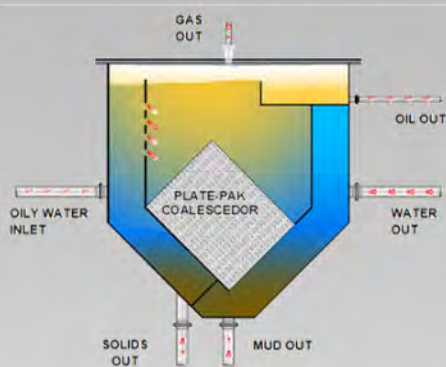
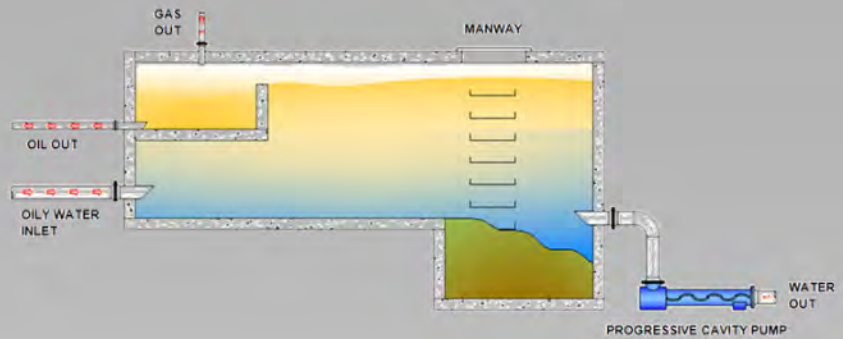
KOCKEN Sistemas de Energia Inc. offers a broad range of water treatment technologies ranging from simple removal of free oil from water to polishing systems achieving maximum oil in water contents as low as 5ppm.

KOCKEN's range of technologies includes:

- Primary Separation of Free Oil via Knock-Out Separators
- Secondary Separation via Cyclonic Separators
- Secondary Separation via Corrugated Plate Interceptors
- Tertiary Separation via Induced Gas/Air Flotation
- Media Separation using Advanced Filtration Elements
- Water Polishing using Advanced ECW Polymers

GRAVITY SEPARATION

Gravity Separators are commonly installed as pre-separators upstream of water treatment facilities. They rely on Stokes Gravity Settling and efficiently remove up to 80% of free oil from the water thereby lowering demands on the downstream water treatment equipment.

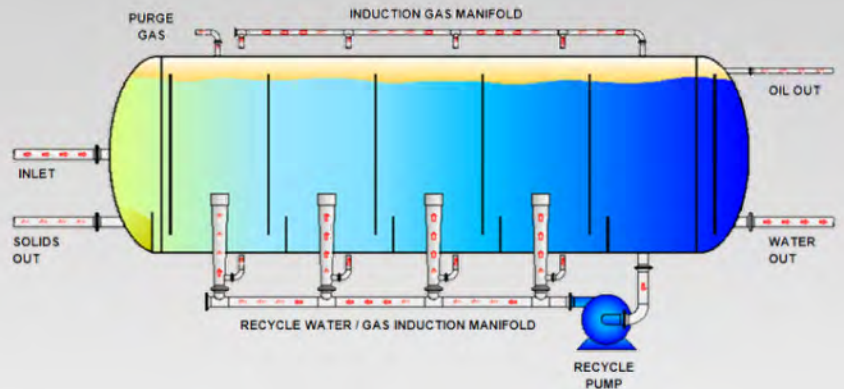


CORRUGATED PLATE INTERCEPTOR (CPI)

CPI's are commonly installed to treat produced water having low Total Suspended Solids and oil concentrations to 10,000ppm. Water flows through the perforated inlet baffle where the bulk of the suspended solids are removed and the influent stream is diverted evenly through to the coalescing plate-pak. The corrugations in the plate-pak coalesce the oil droplets thereby allowing them to rise up and be skimmed from the water. The oil-free water then flows under a weir for final separation of suspended solids. Properly designed CPI's will remove 100% of oil and TSS to below 50µ.

INDUCED GAS FLOTATION (IGF)

Induced Gas Flotation separators are hydraulic in nature. Air or gas is induced, at a controlled rate and bubble-size (50 to 100 µ), to efficiently coalesce the oil and suspended solids allowing them to rise skimmed from the water. IGF Separators, when designed correctly, remove up to 95% of all oil and Total Suspended Solids (TSS).



DRY OIL™

Dry Oil™ is a patented process that uses an ECW based Phase Inversion Polymer. ECW will remove 100% of a broad range of contaminants from water including hydrocarbons, dissolved metals and other contaminants. Dry Oil™ exceeds all current regulatory water treatment requirements and can achieve removal efficiency down to 5ppm oil in effluent water.



APPLYING WORLD CLASS TECHNOLOGIES IN PURSUIT OF SUPERIOR EFFICIENCY

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