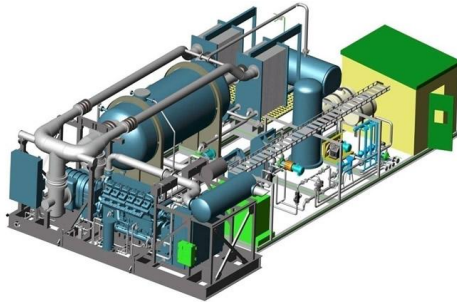
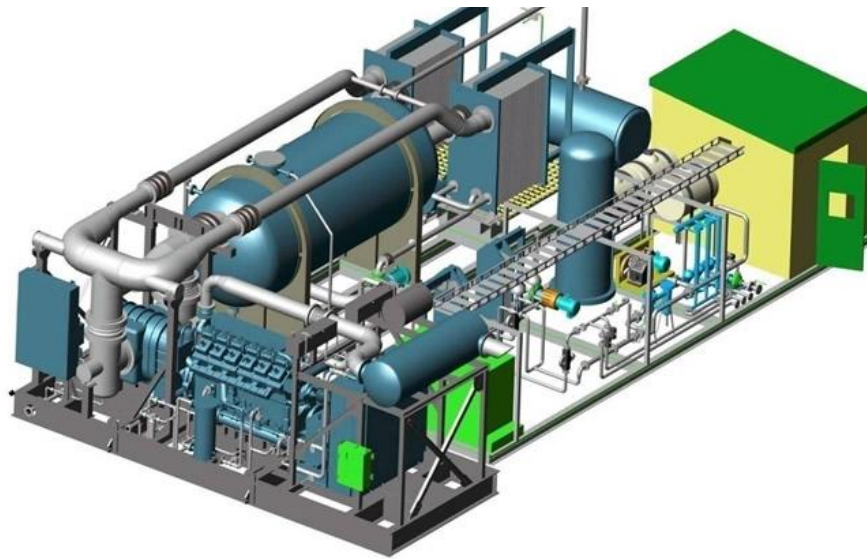


Produced Water Treatment for Re-injection into Tight Reservoir



The technique, including a new Dissolved Air Flotation (DAF) System, fine filtration, new membrane treatment and other physical and chemical methods, can remove oil particles and suspended solids. Each unit could be modularized and composited for different water quality treatment.

Introduction



Until now, 60%-70% of the ever explored oilfields in the world are defined as low permeability oilfields, termed as tight reservoir. Consequently, the reinjected produced quality is required to meet more stringent standard level to ensure to improve the oil recovery ratio. To resolve the emergent requirement, Haimo developed the produced water treatment technology and specialized equipment for re-use /re-injection into tight reservoir, the final treated water quality can meet the $0.01\mu\text{m}^2$ average air permeability standard of SY/T5329-2012.



Process



The oil contained wastewater firstly passes through the CPI unit to remove slick oil; then in the DAF unit emulsified oil will be largely reduced; finally

through the CMUF unit, most of SS and oil content of wastewater will be cleaned up to meet the 0.01 μ m² average air permeability standard of SY/T5329-2012.

Specifications

The effluent can meet (SY/T5329-2012) :

- SS Concentration < 1mg/l;
- SS Particle Diameter Median < 1 μ m;
- Effluent Oil Concentration < 1mg/l.

Features

- High flexibility. The treatment can handle projects with variable flow rate and quality.
- Good treatment performance on the oily sewage of highly concentrated emulsions.
- Automation. Compact, highly automated, integrated, less people dependent.
- Installation. Skid-mounted/plant
- Low cost

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<http://www.haimotech.com/Products-and-Services/Environmental-Protection/Produced-Water-Treatment-for-Re-use-Re-injection-into-Tight-Reservoir.html>

E-mail: sales@haimotech.com