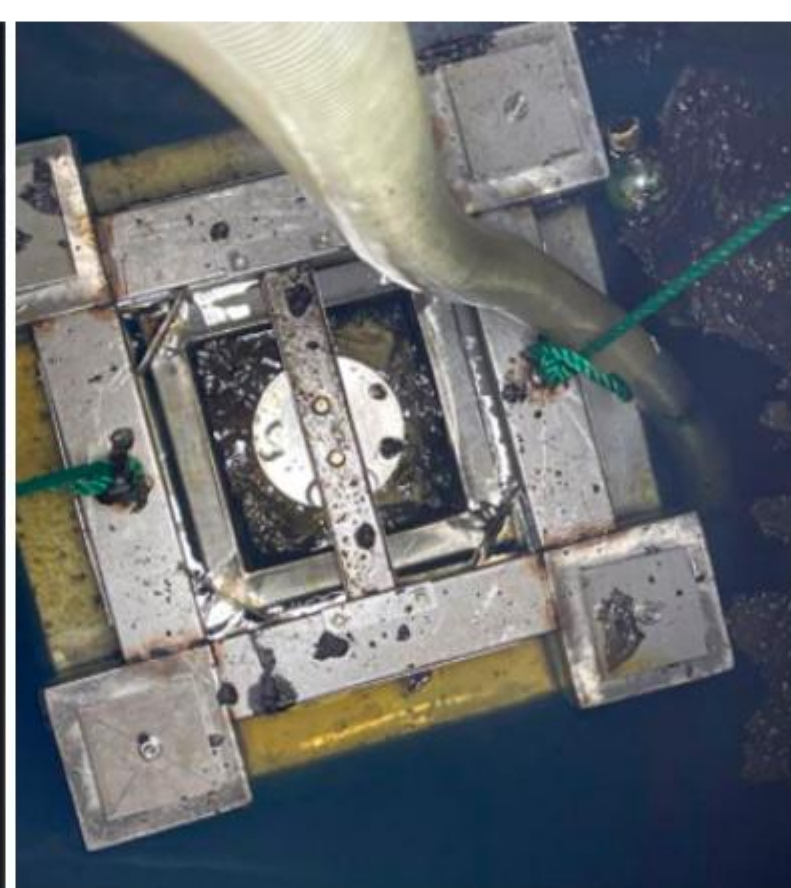
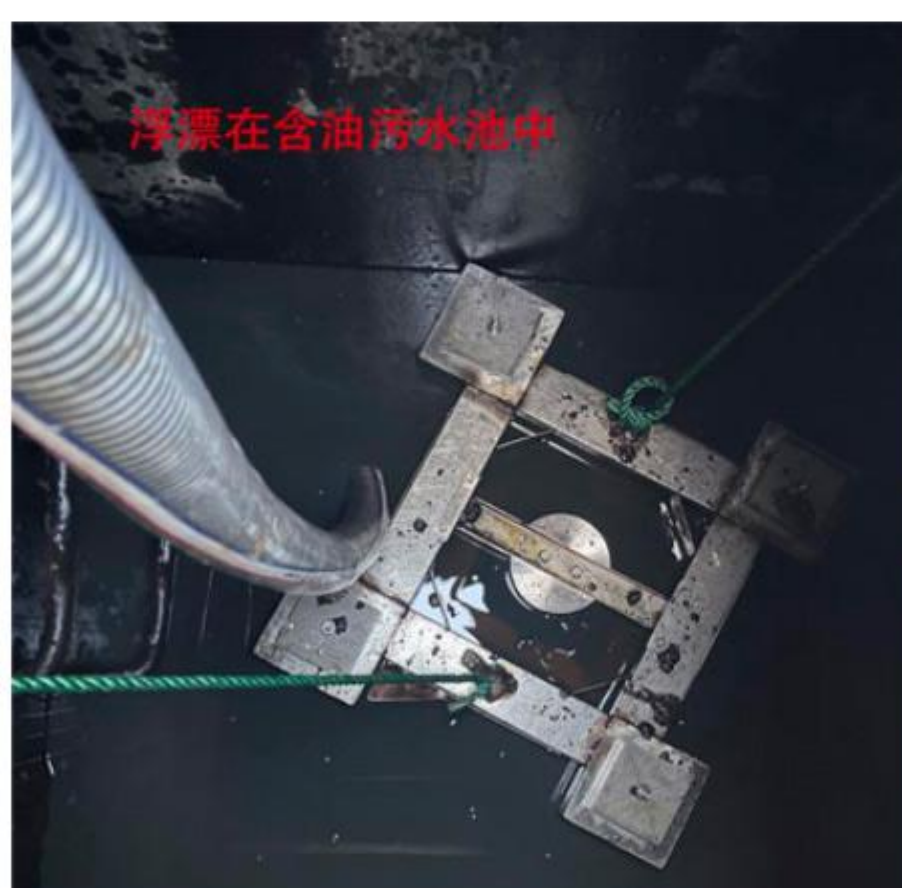


FLOATING OIL RECOVERY SYSTEM

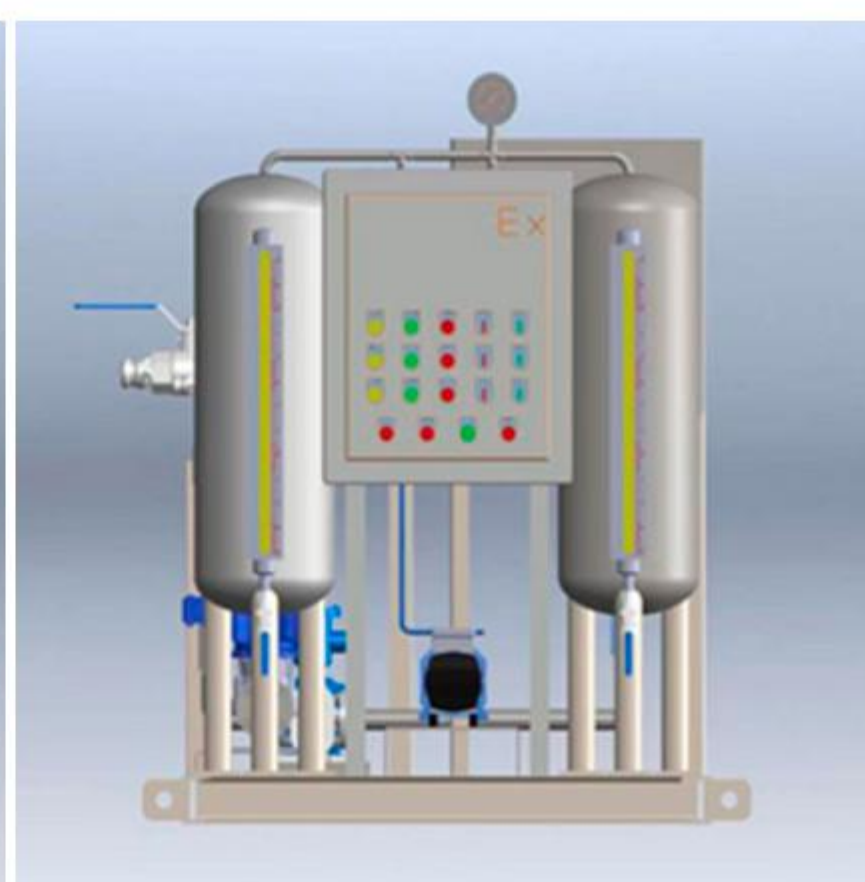
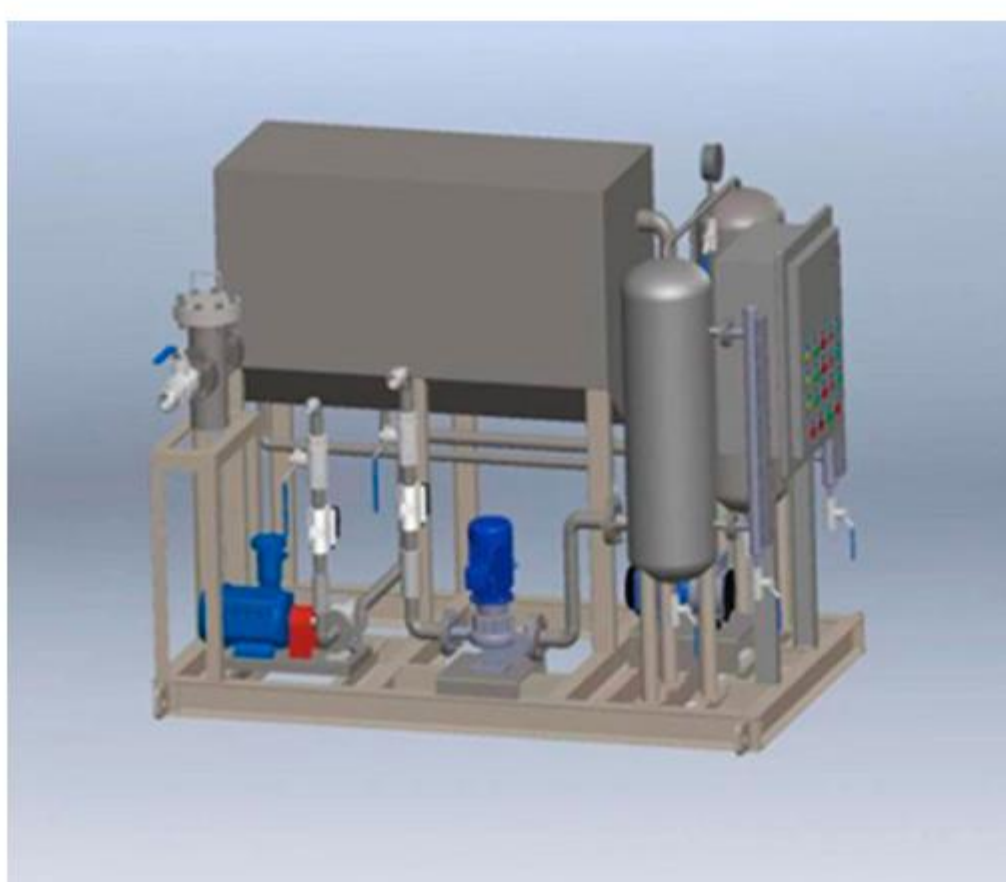
Product Description

MstnLand's floating oil recovery system is also called oil spill skimmer system. It's a floating oil and oil slick recovery device with skid mounted design. The whole system is composed of three main units: floating skimmer, oil-water separator and explosion-proof PLC controller. And it integrates oil slick collection, filtration and separation functions. It's a physical treatment based on the separation principle of laminar flow and gravity, suitable for the collection of oil slicks on the water surface, and can also be used to separate liquids with different specific gravity. It's a kind of energy saving, environmental protection and efficient oil slick recovering equipment.

- The floating skimmer unit takes advantage of the difference in density between oil and water to collect the oil by overflow. The overflow layer can always maintain dynamic balance without manual adjustment, and a counterweight module is added to adapt to different densities of water and liquids.
- The separation unit has the functions of oil extraction and filtration, and the functions of rectification separation and flow channel differentiation are provided.
- Explosion-proof PLC controller controls the pumping system, vacuum system and the whole system logic control with high level of automation, and easy to operate.



Floating skimmer



Oil-water separator and explosion-proof PLC controller

Technical Specifications

Item	Performance & Parameter	Remark
Whole system		
Maximum pumping rate	8m³/h	Oil-water mixture
Maximum oil recovery rate	2m³/h	
Working surface size of floating collector	600*600mm	
Operational water area	300m²	
Applicable oil slick type	Heavy oil/ lubricating oil/ light oil	
Applicable water temperature	0-70℃	
Floating oil collector		
Dimensions	600*600*550mm	
Main material	SS304	
Technical type	Dynamic equilibrium overflow	
Structure type	Cavity floating body structure	Free floating
Oil water separator		
Technical type	Negative pressure separation of advection tank	
Structure type	skid-mount type(Including water pump, oil pump, separation tank, oil storage chamber, electric control box, filter, frame, etc)	Combination
Water pump flux	5.9m³/h	
Pumping head	28m	
Oil pump flux	2.5m³/h	
Outlet pressure	0.6MPa	
Separation tank	SS304	
Filter	SS304	
Filter rating	≤4mm	

Product Advantages

- Using the dynamic balance overflow mode collects the floating oil to automatically adapt to the fluctuation of the liquid level;
- The speed of oil collection is fast and the efficiency of collection is high. For the environment with large oil-water density difference, the rate of floating oil collection can reach 99%;
- Reasonable structure, light weight, small size, convenient operation, mobile, small land occupation and low system energy consumption;
- It can take off and land manually, which is easy to maintain;
- Automatic operation and simple operation.

Applicable Fields

- Oily sewage in oil refining, petrochemical, oil storage engineering, metallurgy, cement, coal, biodiesel and other industries.
- Process wastewater of offshore platform and onshore oil field.
- Environmental water treatment and emergency management of offshore oil spill and waste oil leakage.
- Processing oily sewage in printing and dyeing, paper making, leather, textile, baking, frozen food and other industries.

Project Case

- Oily sewage treatment project of oily sewage storage area in a petrochemical enterprise



Before treatment



In the treating process



Collected oil slicks



设备油水分离后的水样

设备油水分离后的油样

After separation and filtration (water and oil)