



**Environmental Remediation Equipment inc.**

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FILTRATION

# Oil Scavenger™ System

## Large Diameter or Open Area Applications



The ERE Oil Scavenger System™ is a unique separating and pumping system designed for the efficient recovery of hydrocarbon product from the surface water. The system is portable and is electrically safe for use in hazardous locations. The heart of the Oil Scavenger System is a floating oil/water separator 100 mesh cartridge membrane that consists of an 18.5" diameter product collection chamber assembly and lid which passes recovered oil to a remote pump and control assembly. Actual separation of oil or other hydrocarbons from water is effected by a mesh screen located in the floating buoy assembly. This screen is specially treated to pass oil and repel water.

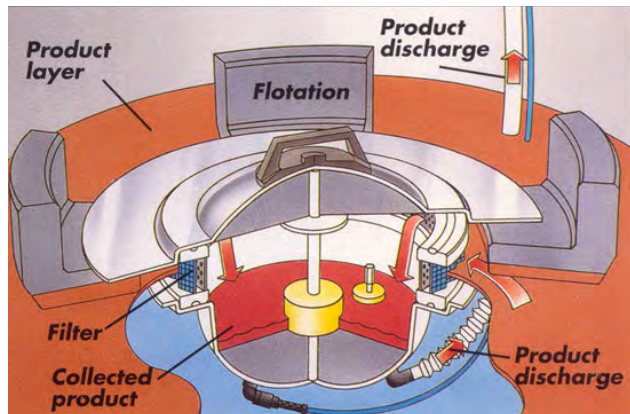
### Features

- Efficiently separates hydrocarbons from water insitu using an oleophilic/hydrophobic membrane
- Intake floats on the water surface  
Automatically adjusts as water level fluctuates
- Intrinsically safe explosion-proof design
- Portable self-contained design  
For quick and easy startup, ideal for emergency response
- Durable construction for harsh field conditions
- Recovers hydrocarbons to a sheen
- Salt water and aromatic hydrocarbon models available.

### Operation

The ORS Large Diameter Filter Scavenger™ has a floating collection element or "buoy" designed to float precisely at the oil-water interface. This allows hydrocarbons to flow into a collection basin within the unit automatically. This unit is so effective that product layers can be reduced to a sheen.

When approximately one liter of hydrocarbons collects in the buoy base, a float switch is activated, turning the pump on. Thus, water-free product is automatically pumped into a recovery tank. A water sensing switch is also located within the buoy. Should water enter the buoy, a density switch is activated, shutting off the pump and activating an alarm light. This automatic feature prevents recovered hydrocarbons from being contaminated by water.



Cut-away view of buoy

### Specifications

Applications	Trenches, manholes, small bodies of water, and wells 24" (61.5 cm) in diameter or larger, with fluctuating water table levels
Product Recovery	Up to 4 gpm (15.4 lpm) @ 65 PSI
Dimensions/Weight for buoy assembly	18.5" dia. x 10" high x 5" draft 11 lbs. (47.4cm x 25.6cm x 12.8 cm/5kg)

ER-3051101-L  
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