

A proven oil skimmer separator hybrid for industrial wastewater treatment.



A SurfCleaner SCO 8000 operating in an API basin.

SurfCleaner benefits:

- Automatic removal and separation of oil with 100% separation capability
- Recovers 100% of the oil – with a water content of less than 0.5%
- Capacity to collect and separate 8,000 liters of pure oil per hour
- Continuous operation: 24 h per day, 7 days a week, with minimal service requirements, even over long periods of time
- Energy and cost-efficient operation with low maintenance, enabling substantial cost savings
- Easy handling, installation and service
- SCO 8000-ATEX is certified for Zone 0

SurfCleaner for oil water separation

More than 30 SurfCleaner units have been in operation for 10+ years in the oil spill segment. We have served a variety of customers, including oil refineries, coast guards, and industrial ports in the Nordics and in Europe, for example: Preem Refinery, Esso Refinery, Exxon Mobil, Swedish Coast Guard, The Port of Stockholm, and Midroc.

Conventional solutions are often manual, inefficient and expensive

Oil spills in ports and oceans from accidents and other causes are a major pollution threat. Today, a variety of solutions, such as skimmers, barriers, chemicals and burning are used to collect and/or remove the oil with varying degrees of efficiency. The majority of solutions do not have the capability to remove thin oil sheens, petrol and diesel.

SurfCleaner – the Skimmer Separator Hybrid

Automated and highly effective, SurfCleaner represents a solid contribution towards managing the global water surface pollution problem. It is a well-proven, energy efficient system that collects and separates pollutants from water surfaces. Easy to install, run and maintain, SurfCleaner will separate oil, petrol or diesel, from the water surface at the location of the spill.

The SurfCleaner technology is based on gravimetric separation, collecting both the carrier fluid and the top layer substance – allowing 100% separation of the top layer substance, and a separation capacity of 8,000 liters/h. Many of our customers that have installed a SurfCleaner in their API separator state, by using SurfCleaner they have a more cost effective and efficient solution to removing oils from the water surface.

Advanced yet simple

SurfCleaner is advanced yet ingeniously simple. The patented collection and separation process has been developed into a self-managing solution consisting of only two moving parts. The separated oil is discharged to an external storage tank. Disposal costs are minimized since the oil is up to 100% pure and recyclable.

SurfCleaner has been developed through years of extensive research in close co-operation with customers. In addition to its impressive performance capabilities, it is durable and easily maintained.

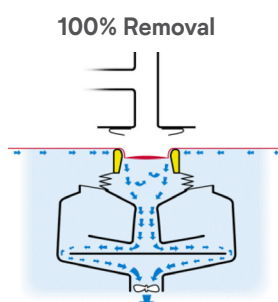
SurfCleaner SCO 8000 – facts and information



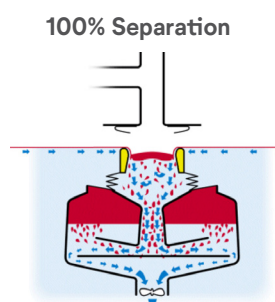
Applications

- Continuous separation of oil from water in refineries, oil depots, ports, and industrial facilities – often installed in API ponds
- Oil caverns: removing surface petrol or diesel from the water base to allow change of contents

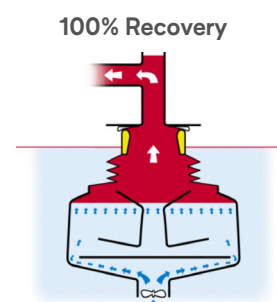
SurfCleaner's three-step process:



The propeller creates a negative pressure, causing the water with the oil on the surface to flow into the SurfCleaner.

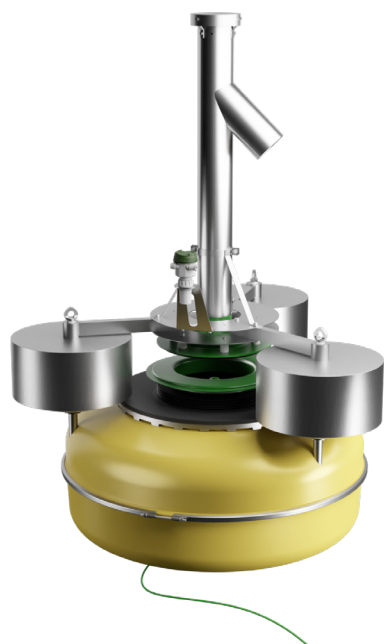


Deflection disks force the oil and the water to the periphery. As the flow velocity drops, the oil is forced upwards to the ceiling while the water is forced down towards the propeller and the outlet.



With the water acting as a piston, the oil is discharged at the rate of 8,000 liters of pure oil per hour into an external storage tank. The recovered oil has a water content of less than 0.5%.

SurfCleaner SCO 8000 – technical data



General

Separation capacity, incl. discharge:

Viscosity:

Layer thickness:

Solids size, max:

Maximum flow capacity:

Material:

Up to 8,000 l/h

From light to medium

> 0.1 µm

150 mm, depending on shape

50,000 l/h

Stainless steel, polyester

Dimensions

Depth:

Diameter:

Weight:

Outlet pipe:

1,1 m

Ø 2,0 m

210 kg

Ø 160 mm

Power and control

Power:

Control system:


500 W, 2 phase, 50/60 Hz, 16 A

Siemens Simatic

Options

ATEX/EX:

Supervision:

Zone 0 certificate 

Remote control and diagnostics

For more information please visit www.surfcleaner.com
or email info@surfcleaner.com