

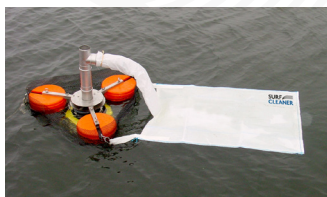
Skimmer separator hybrid for 100% removal, separation, and recovery of oil on water surfaces



A SurfCleaner SCO 1000 used by the Swedish Coast Guard.

SurfCleaner benefits:

- Portable, easy to move and handle by one single person
- Operation on-grid or off-grid by solar power
- Remote control by smartphone app
- 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 1,000 liters of pure oil per hour
- Continuous operation: 24 h per day, 7 days a week, with minimal service requirements



Portable SurfCleaner for flexible oil cleanup

The SCO 1000 is a skimmer separator hybrid designed for oil spills and oil separation in the process industry. With a weight below 25 kg and a diameter below 60 cm in transport mode, this portable unit can conveniently be handled by one single person. It can be powered on-grid, from a regular power outlet, or off-grid by optional solar panels. It is controlled remotely by an easy-to-use smartphone app. With these features, the SCO 1000 is a very versatile solution for a wide range of applications in oil cleanup and oil separation.

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 1,000 liters/h.

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.

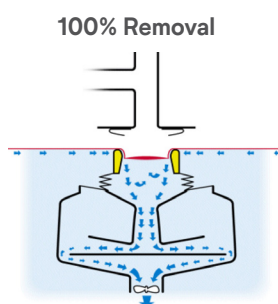
SurfCleaner SCO 1000 – facts and information



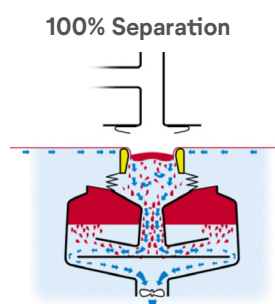
Applications

- Continuous separation of oil from water in refineries, oil depots, ports, and industrial facilities
- Handling of oil spills in ports, seas, lakes and rivers
- Oil caverns: removing surface petrol or diesel from the water base to allow change of contents

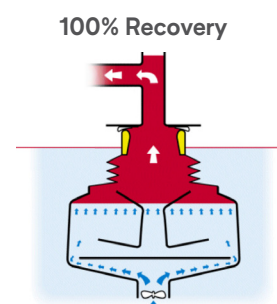
SurfCleaner's three-step process:



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



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 1,000 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 1000 – technical data



General

Separation capacity, incl. discharge:
Viscosity:
Layer thickness:
Solids size:
Maximum flow capacity:
Material:

Up to 1,000 l/h
From light to medium
> 0.1 µm
< 70 mm, depending on shape
7,000 l/h
Stainless steel, aluminum, HDPE, Neoprene
(alternatives available upon request)

Dimensions

Depth:
Diameter:
Weight:
Outlet pipe:

0.45 m
Ø 1.4 m (in transport mode < 0.6 m)
< 25 kg
Ø 80 mm

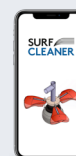
Power and control

Power:

Control system:

< 20 W average
2 phase, 50/60 Hz, 10 A

Remote via smartphone app



Options

ATEX/EX:
Off-grid power:

Zone 0 certificate
Solar panel



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