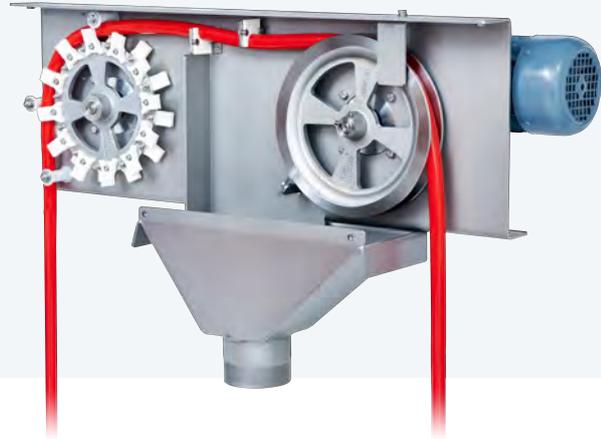


# Oil Skimmer

## Model S100

Simple, fast and reliable, the Friess oil skimmer model S100 removes floating oils from emulsion, wash water or waste water



## Advantages

- Rapid ROI due to increased service life of emulsion and degreasing baths
- Minimal maintenance required thanks to robust design and high-quality, durable materials
- The oil is drawn off over a large area by the free floating oil collector tube
- Level fluctuations in the tank are compensated
- Low assembly effort, as prefabricated assembly systems are available for almost all applications

## Technical Data

<b>Removal capacity</b>	500 l/h
<b>Surface of the tank</b>	min. 1300 mm x 1300 mm
<b>Max. lifting height</b>	20 m
<b>Weight</b>	44 Kg
<b>Operating temperature</b>	- 20 °C to +95 °C
<b>Drive power</b>	0,18 kW
<b>Voltage</b>	400 V
<b>Dimensions L x W x H</b>	760 x 270 x 480 mm

## Options

- Heater
- Closed version
- Stainless steel 1.4571 (AISI 316) for use with aggressive fluids
- Atex certification

## 1. Oil-Water Separation Made Easy

Significant costs can be saved by removing tramp oil from emulsions, wash water and waste water. Continuous removal of tramp oil from emulsions can multiply the service life of the emulsion. This significantly minimizes bacterial contamination. By removing tramp oil from wash water, the service life of the degreasing bath can be significantly increased. At the same time, the surface quality of the washed parts is improved. By removing floating oils from wastewater systems with a Friess oil skimmer, wastewater treatment becomes much easier and the residual oil content in the clean water is reduced.



## 2. The Best Method of Oil Removal

The Friess oil skimmer S 100 works on the proven principle of the free floating oil collector tube. Oil adheres to an endless oil collector tube, which at the same time repels water. The hose is made of a flexible, high-temperature resistant, specially compounded plastic. The oil collector tube, which is covered with oil, is continuously pulled through scrapers. The scraped off oil flows into the oil collector pan under the Friess S 100 oil skimmer. Returning to the liquid surface, the clean oil collector tube picks up new oil. The constant circular motion of the oil collector tube keeps the liquid surface in motion and drives the oil towards the oil collector tube. This removes the oil from the entire surface. Even with a tank length of 10 m, the Friess oil skimmer S 100 collects the oil from all corners of the tank because the oil collector tube attracts the oil. Since the oil collector tube floats, even 2 m level fluctuation is no problem. Extremely abrasion-resistant and durable even in continuous operation.

### 3. What is Removed?

The oil collector tube removes all floating oils and greases such as used oil, mineral and vegetable oils, animal fats as well as oil-containing foam, creams and other contaminants from water, cooling lubricants and cleaning solutions. Depending on the viscosity and layer thickness of the floating oil, up to 500 l/h of oil and grease can be removed. In the case of foam containing oil and very small quantities of floating oil, an oil separator tank can be installed downstream. This tank returns any water, emulsion or washing solution to the working tank, while the oil is discharged into the waste oil collection tank.



### 4. Long Service Life and Low Maintenance

Simple, robust and absolutely reliable, the Friess S100 oil skimmer is made of stainless steel and is therefore ideally suited for many years of continuous operation. All parts that come into contact with the oil-contaminated oil collector tube are made of highly abrasion-resistant aluminum oxide ceramic. Some of the dirt particles and solids contained in the skimmed oil have a highly abrasive effect and quickly grind down conventional materials. The used ceramic is extremely abrasion-resistant and achieves service lives of several years even in continuous operation.

### 5. The Oil Skimmer for Every Industry

Companies from all industries benefit from the advantages of Friess oil skimmers: automotive, chemical, paper and steel industries, hardening shops, casting, machine factories, railroad and aircraft workshops as well as food manufacturers. Waste oil disposal professionals also appreciate the quality and benefits of Friess oil skimmers. Typical areas of application are: Waste water treatment, cooling water circuits, emulsion plants, degreasing baths.

### 6. The Perfect Device for All Conditions

In order to optimally adapt the Friess oil skimmer to your application, different mounting systems are available. This simplifies installation and reduces costs. Due to different oil collector tubes the Friess oil skimmer can be used at temperatures from -20 °C to +95 °C. Of course, the oil skimmer can be equipped with an additional heater for continuous operation at minus temperatures in extremely cold weather. Depending on the application, the oil skimmer can be used stationary or mobile. In order to de-oil several basins with one oil skimmer, the Friess oil skimmer model S 100 can be mounted on a trolley with a waste oil container.

## 7. ATEX

Especially in refineries and in the chemical industry, oil skimmers must also be used in potentially explosive atmospheres. The oil skimmer model S100 can be supplied in explosion-proof design with ATEX certificate. All parts of the oil skimmer have been tested in an elaborate approval procedure. An explosion protection certificate that complies with European regulations is available.

## 8. Consultation and Delivery

With the Friess oil skimmer S100 you can solve your oil-water problem. Just test an oil skimmer at your plant. You can convince yourself of the quality and usefulness of the device.

## 9. Cost Saving

The low power consumption and high efficiency of the gear motors used ensure low operating costs. The use of high-tech materials such as stainless steel and ceramics guarantee a long service life. The extended service life for your emulsion or degreasing bath ensures that your new Friess oil skimmer model S100 pays for itself quickly.

### For more information, consultation and ordering:

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