

Oil Skimmer

Model 1S

The Friess oil skimmer model 1S removes floating oils from emulsion, wash water or waste water. The compact device with a large lifting height is suitable for basins with a surface area of up to 1 m²



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 removed from 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

Removal capacity	2 - 30 l / h
Surface of the tank	min 500 mm x 500 mm
Installation height above liquid	max. 10 m
Level fluctuations	max. 1 m
Operating temperature	- 20°C bis +95°C
Drive power	0,09 kW
Voltage	230 V / 400 V
Dimensions incl. oil collecting pan L x W x H	300 x 308 x 372 mm

Options

- Gear motor with electronic speed control
- Timer function
- Stainless steel 1.4571 (AISI316) for use with aggressive fluids
- Plastic version for use with aggressive fluids
- ATEX Certification

1. How it Works

The oil collector tube of the oil skimmer model 1S creates a uniform rotary motion on the entire surface of the liquid and thus reliably removes oil and grease even from the corners. Because the oil collection tube floats on the liquid and can be flexibly adapted to the respective container shape, large-area oil removal and exact oil-water separation are guaranteed.

2. Construction Principle

An endless, smooth plastic tube - the so-called oil collector tube - floats freely on the surface of the liquid. Oils and greases as well as dirt particles bound in them adhere to the surface of the oil collector tube. The tube pulled through special, highly abrasion-resistant ceramic scrapers in the oil skimmer. In the process, the oil is scraped off, fed into an oil collecting pan and finally to an oil storage tank.



Oil skimmer in operation. Oil is picked up on one side, scraped off in the skimmer and the clean tube comes down the other side.

3. Range of Application and Special Features

The oil skimmer model 1S is specially designed for high lifting heights. It can be installed up to 10 m above fluid level. In particular, the oil skimmer model 1S can be used for below-ground pools, rehabilitation wells and other tanks where the water surface is below ground level. It is specially designed for continuous operation in harsh industrial environments. The oil collection tank and base body are made of stainless steel. The drive wheel is fitted with highly abrasion-resistant ceramic and therefore guarantees long service life, even with heavily contaminated cooling lubricants and degreasing baths.



Oil skimmer in operation

For more information, consultation and ordering:

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