ultraspin™

OILY WATER SKIMMERS

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Ultraspin surface skimmers are designed to remove oil, fats and floating material from tanks, sumps, interceptors and other effluent pits. They may also be used in open waters such as lakes, harbours and lagoons. They are a true self-adjusting, weir-type, oily water skimmer.

TWO MODELS AVAILABLE

S1 Skimmer

S2 Skimmer

FEATURES

✓ Self-Adjusting Skim

Surface skim-height is fully self-adjusting to take the finest cut of surface liquid despite changes in flow rate or fluid viscosity. Many competitor skimmers require constant manual adjustments – not Ultraspin's!

✓ Operates if tilted

The Ultraspin skimmer continues to work effectively even if the skimmer tilts by a few degrees relative to the water level. Tilting often occurs in confined pits or when the suction hose is twisted. Many other skimmers will not function if the skimmer tilts by even a few degrees.

✓ Skims in all directions

Fluid is skimmed in all directions.

✓ No moving mechanical parts

This makes our skimmers suitable for unmanned operation or difficult access locations. It also reduces painstaking, labour-intensive maintenance, and reduces the costs associated with manning and maintenance.

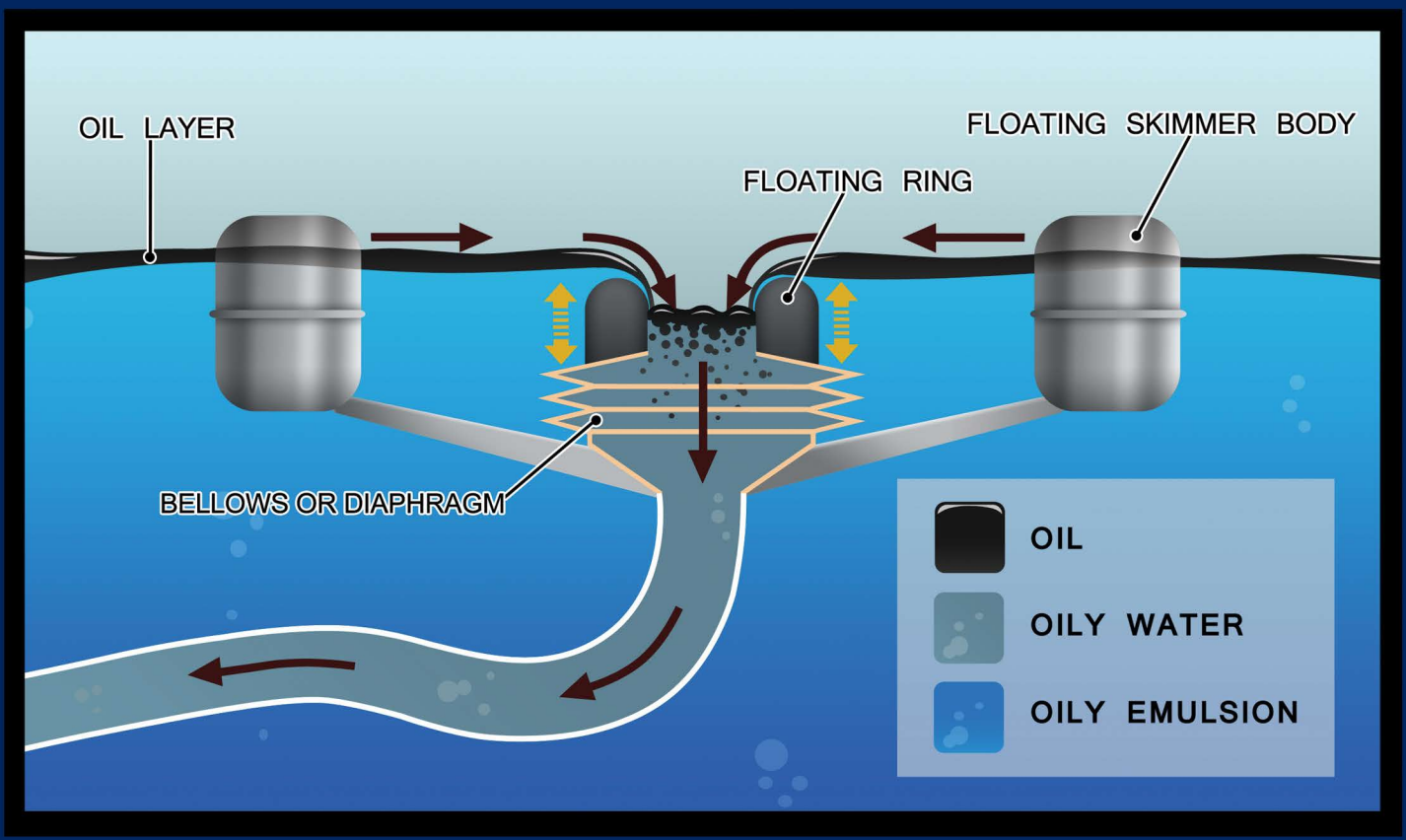
✓ Other Features

The skimmers can be supplied with hose kits and hose floats. This skimmer is specifically designed for use in tanks and pits.

TYPICAL APPLICATIONS

- Oil skimming from effluent collection pits, tanks, interceptors, etc.
- To provide a skimmed feed to oily-water treatment systems such as Ultraspin separators, coalescing plate separators and DAF separators.
- Emergency response oil spill clean-up on open waters such as lakes, rivers and harbours.
- Oil terminals, fuel storage sites.

HOW IT WORKS



The main components of the Ultraspin skimmer are a floating central ring, a flexible bellows and a floating body assembly. The floating central ring, shaped like a doughnut, sits in the centre of the skimmer. A bellows forms a sealed chamber between the skimmer body and central ring. The flexibility in the bellows allows the ring to float independently of the skimmer body; this gives the skimmer its ability to self-adjust. The ring floats on the fluid in the pump-out chamber on the inside of the bellows. The body of the skimmer holds the components together and provides the floatation for the assembly.

A hose and pump can be connected to the skimmer outlet. As the fluid is pumped away, the floating ring sinks, thus allowing fluid to flow over the top, like a weir, and into the pump-out chamber. As the flow is increased, the ring sinks deeper into the fluid so that more fluid passes over the top of the ring and into the pump-out chamber. This is what makes the skimmer fully ***self-adjusting.***

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SKIMMER DIMENSIONS & SPECIFICATIONS

DIMENSIONS	S1 Stainless Steel	S2 Stainless Steel
Outside Diameter	856 mm	1370 mm
Depth	430 mm	710 mm
Dry Weight	7.5 kg	24. 5kg
Connection	1½" male camlock	3" male camlock
Nominal Hose Size	40 mm	80 mm
Nominal Access Opening Required	630 mm	1050 mm

SPECIFICATIONS		S1 Stainless Steel	S2 Stainless Steel
Maximum Flow[1]	General	7 m^3/h	25 m^3/h
	Oily Water	5 m^3/h	15 m^3/h
Typical Fluid pH		5-11 pH	5-11 pH
Temperature		0-70°C	0-70°C
Min Working Depth[2]	Bottom exit	700 mm	1000 mm
	Side exit	500 mm	700 mm

1. Maximum flows are estimates and actual flows will depend on the viscosity and nature of the fluid.
2. For oil skimmers to work effectively they need to be installed so that they can float free and unimpeded.

MATERIAL	S1 & S2 Stainless Steel
Bellows	UV stabilised polyethylene poly-fabric
Floating Ring	UV stabilised polyethylene
Floats	304 Stainless Steel
Body	316 Stainless Steel
Attachments	316 Stainless Steel

Tethering Eyebolt
(Stainless Steel)
This allows easy moving, and skimmer location

OPTIONS

Suction Hose Kit

- Oil-resistant wire-reinforced suction hose with ends pre-fitted.
- One end connection is Aluminium male/ female camlock pair.
- Other end is BSPM thread.
- Hose is spiral-wound oil-resistant polypropylene fabric with PVC coated fabric cover and galvanised mild steel outer wire.
- Fittings are 316 stainless steel fittings.
- Min Bend radius: 400 mm.

Hose Float Kit

- UV stabilized polyethylene hose float.
- Variable rubber bush that can be cut to suit 1½”–4” hose.
- 9.8 kg dry weight.
- Greater than 80 kg reserve buoyancy.
- Stainless Steel bolts.

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