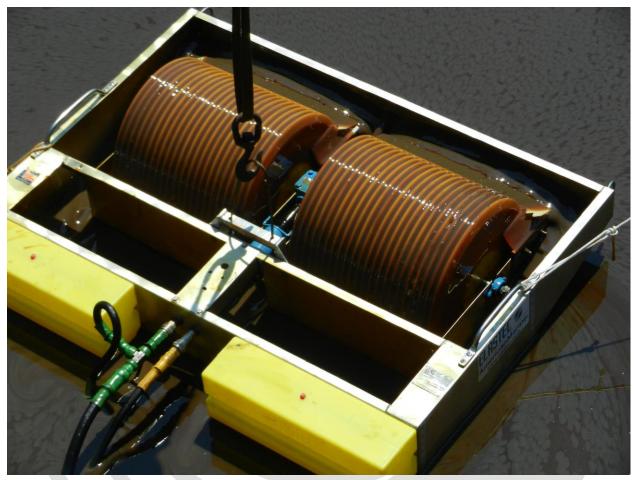


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TDS118 Drum Skimmer Technical Description



TDS118 with Grooved Drums

The ELASTEC TDS118 is one of the most popular oil skimmers we offer. The original design concept was patented in 1990. Thousands of Elastec drum skimmers have been sold worldwide and proven themselves both in emergency response but also industrial applications. The fact that the skimmer is suitable for continuous duty is a testament to the design concept. It is suitable for oil spill response or industrial use. Due to its shallow draft and lightweight design (74 lbs / 33.5 kg), the TDS118 skimmer is ideal for cleanup in shallow waters such as creeks, rivers and lakes as well as harbors and near shore.

ELASTEC Drum Skimmers are able to recover a wide range of oils and sheen, from diesel to crude oils.



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The TDS118 skimmer features heavy-duty high density Polyethylene drums, which are resistant to impact and abrasion. They not only serve as the rotating oleophilic element that selectively recovers the oil from water, they also provide buoyancy for the skimmer. The skimmer can draw oil in from all directions. The drum material is resistant to many chemicals found in industrial pits, sumps, separators and tanks. The self-adjusting wiper blades recover oil from the face and side of the drums as they rotate. The wipers can easily be replaced without tools.





Drive is provided for the drums by a centrally mounted gearbox (provides even weight distribution), this gearbox provides the torque necessary to turn the drums in heavy oils as well as allowing for fine control of the drum speed. The drum shafts are supported by self-aligning bearings. This is all mounted in a lightweight anodized marine grade aluminum frame with open and steeply inclined pathways that direct recovered oil to the collection sump. The open design facilitates cleaning and removal of any debris or trash. A

removable trash screen prevents larger items entering the recovered oil pump.

The TDS118 is capable of recovering both light and heavy oils with very low water content - typically around only 3%. It may be fitted with either an air or hydraulic drive motor. We offer a choice of pumps in different materials to suit the application.

The skimmer may be fitted with steam coils as an option to provide heat that warms the oil that's being recovered (to aid pumping and prevent freezing) as well as melting ice surrounding the skimmer.





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The TDS118 is offered with either the original smooth drums or the latest patented Grooved Drums which can achieve higher oil recovery rates. The Grooved Drum design has been extensively tested by the Ohmsett test facility and researched by the University of California, Santa Barbara. This skimmer has also been independently tested by Environment Canada, CEDRE France, CRREL (Cold Regions Research and Engineering Laboratory). Test reports are available on request.

Specifications;

Smooth Drum nameplate capacity: 35 gpm / 8 cu.m per hour*
Grooved Drum nameplate capacity: 90 gpm / 20 cu.m per hour.**

Number of drums: 2 (Polyethylene HD)

Frame: Anodized marine grade aluminum***

Handles and tether points: Included

Wiper blades; Self-adjusting (spring loaded).

Spare wiper blades included.

Wiper retainer: Mounted with stainless steel pins & springs

Dimensions: 52.5 x 40.5 x 18 inch / 1.33 x 1.02 x 0.46m

(without aux.floats or lifting cable)

Weight: 74 lbs / 33.5 kg (without floats) 83 lbs / 37.6 kg (with floats)

Proumatic or hydraulic

Drive: Pneumatic or hydraulic

Max operating temp: 158 F / 70 C

Sump coupling: 3 inch female camlock

Draft light: 3 inches / 75 mm (may vary according the

pump)

Lifting point: Certified wire

Air requirements (for pneumatic models);

Skimmer only: 5 to 15 cfm, 50 to 100 psi. Skimmer and E1 diaphragm pump: 10 to 35 cfm, 50 to 100 psi.

Optional: Spares Kit, Disc and Brush Inserts, Trough Guard, Steam Coils

^{*} Nameplate capacity verified by the US Coast Guard.

^{**} Tested at the Ohmsett test facility according to ASTM F2709

^{***} Stainless steel frame optional



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Configurations;

The skimmer may be supplied with pneumatic or hydraulic motor with a choice of recovered oil pumps - air operated diaphragm or hydraulic driven submersible (E150).





The optional diaphragm pump may be remotely positioned or mounted on the skimmer for high head applications.



The skimmer can be connected to a vacuum truck to suck out recovered oil. The drums may be driven by the compressed air provided by the trucks braking system.

Hydraulically operated skimmers may be delivered with a diesel or electric driven hydraulic power pack.





Skimmer with E150 pump and D10 diesel hydraulic power pack.

E10 electric hydraulic power pack

BSK-062 9/03/13