



ELASTEC

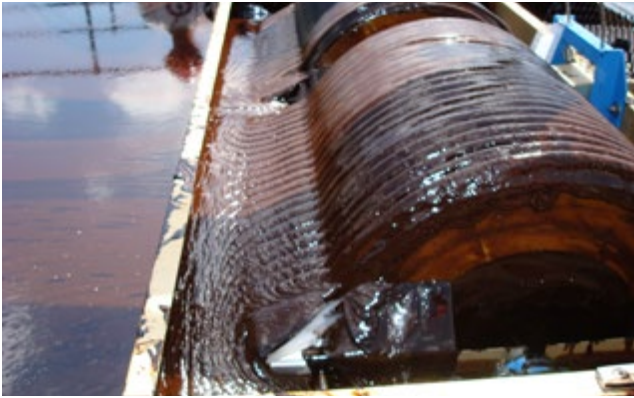
TDS118

Drum Skimmer



Oil Spill Equipment | Floating Barriers | Incinerators

The Elastec TDS118 floating drum oil skimmer is available in pneumatic or hydraulic motor for oil spill response or industrial use. Due to its shallow draft and light weight, the TDS118 is ideal for cleanup in creeks, rivers and lakes. It is equally at home in an industrial American Petroleum Institute (API) separator. It is capable of recovering a wide range of oils. The TDS118 has been tested at Ohmsett to substantiate its nameplate capacity and efficiency. (Ohmsett is the largest outdoor saltwater wave/tow tank facility in North America and is the only facility where full-scale oil spill response equipment testing, research, and training can be conducted in a marine environment with oil under controlled environmental conditions.)



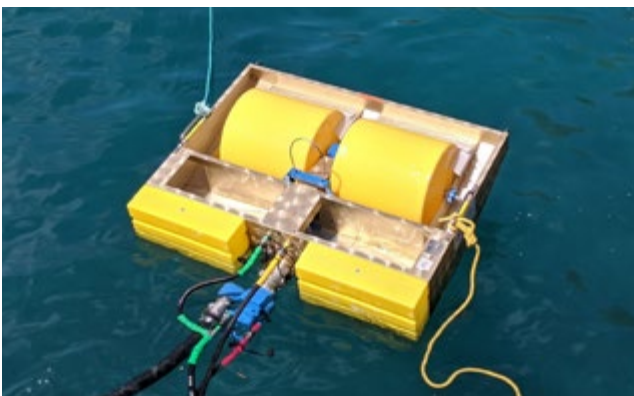
The TDS118 skimmer features heavy-duty high density Polyethylene drums, which are resistant to impact and abrasion. They not only serve as the rotating oleophilic element that selectively recovers the oil from water, they also provide buoyancy for the skimmer. The skimmer can draw oil in from all directions. 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, or a polyethylene HD frame- which adds further chemical and acid resistance; the open and steeply inclined pathways, the recovered oil is directed 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 aluminum frame 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.

Skimmer Variants

Two frame materials are available depending on the nature of your application.

Materials	Standard	PE	CRX
Frame	Anodized Aluminum	Polyethylene HD	Polyethylene HD
Drums (Smooth & Grooved)	Polyethylene HD	Polyethylene HD	Polyethylene HD
Drum Shafts	Aluminum	Aluminum	Stainless Steel
Gearbox	Epoxy Painted	Epoxy Painted	Powder Coated
Bearings / U Joint	Steel	Steel	Stainless Steel
Wiper Retainer	Aluminum	Aluminum	Stainless Steel
Suction Hose Coupling	Aluminum	Poly	Poly
Drive	Pneumatic or Hydraulic	Pneumatic or Hydraulic	Pneumatic



Anodized Aluminum

TDS118 may be supplied with an Anodized Aluminum or Polyethylene HD frame.

This skimmer is widely used in the Palm Oil industry for the recovery of waste oils. TDS118 is capable of withstanding these temperatures as well as the corrosive conditions.



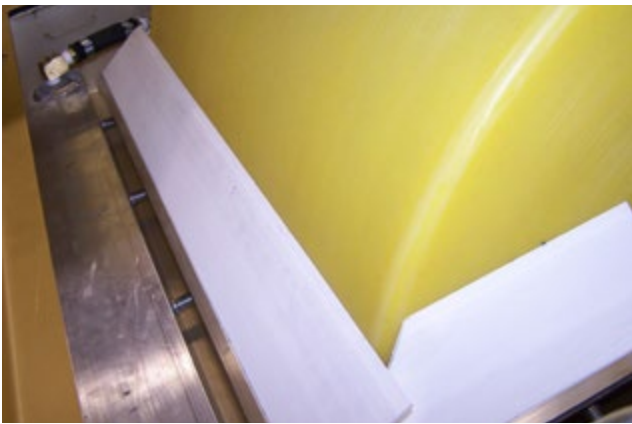
PE / CRX

For acidic environments the polyethylene construction may be used while the shafts and bearings are upgraded to stainless steel. For the copper mining industry, recovering organic oils in acidic ponds, we offer the CRX model, which has upgraded components.

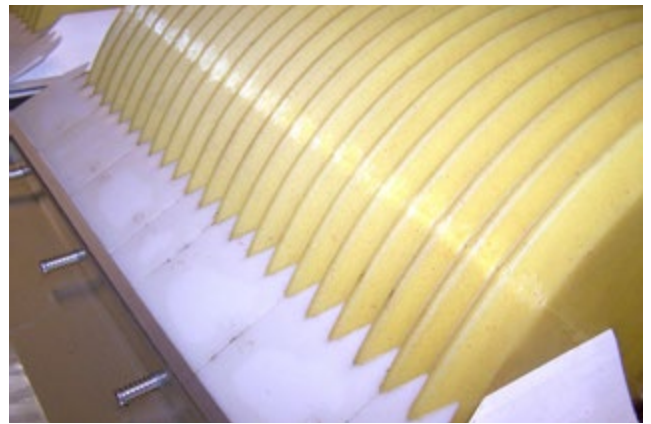
Drum Configurations



Elastec offers a full lineup of innovative Grooved Drum, Brush and Discs inserts for our well-proven range of skimmers. These inserts represent patented technology that not only enhance recovery rates, but also expand the viscosity range that can be collected. All inserts retain the lightweight and shallow draft features of the skimmer head that is so popular with responders. Drum inserts are interchangeable in the field with minimal tools and effort. The skimmers can be supplied with just brush or disc or drum setup as per preference and requirement. Brush and disc assemblies can be dismantled for decontamination / cleaning.



Smooth Drum



Grooved Drum



Brush Drum



Disc Drum

The TDS118 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.

Specification

Smooth Drum Nameplate Capacity:	35 gpm / 8 cu.m per hour*
Grooved Drum Nameplate Capacity:	102 gpm / 23 cu.m per hour**
Number of Drums:	2 (Polyethylene HD)
Frame:	Anodized marine grade aluminum / Polyethylene HD
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 0.46 m
Weight:	83 lb / 37.6 kg
Drive:	Pneumatic or Hydraulic
Max Operating Temp:	130°F / 54°C
Sump Coupling:	3 inch female camlock
Draft Light:	3 inch / 75 mm (may vary according to pump)
Lifting Point:	Certified Wire
Air requirements (for pneumatic models)	
Skimmer only:	5 - 15 cfm, 50 - 100 psi
Skimmer and E1 Diaphragm Pump:	10 - 35 cfm, 50 - 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



Pumps

Below are the most commonly used pumps with the TDS118 skimmer. Other pump options are available. Contact us for more details.



**E150 Submersible Pump
(Hydraulic)**



**M4 Diaphragm Pump
(Pneumatic)**



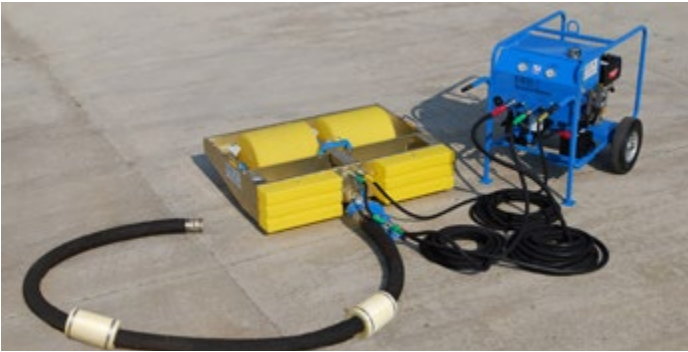
**E1 Diaphragm Pump
(Pneumatic)**



Lobe Pump (Diesel)

Power and Pump Configurations

Hydraulically Driven Skimmer and Pump



Elastec manufactures a wide range of hydraulic power units to operate boom reels, oil skimmers and pumps. These power units are available with both diesel or electric drives. The electric models may also be delivered in explosion-proof configuration for use in oil refineries and other hazardous locations.

Based on your needs, we can build the perfect HPU/Skimmer/Pump configuration.

Air Operated Skimmer and Pump



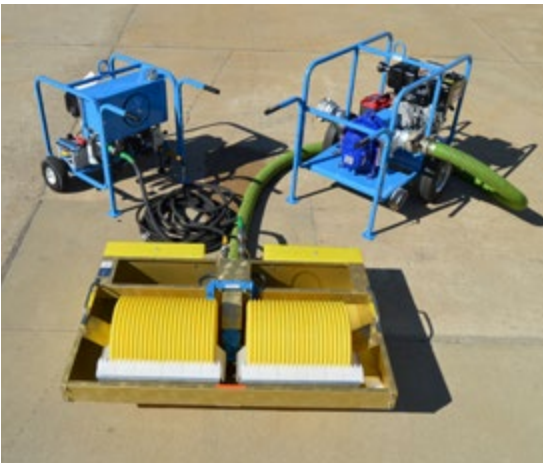
Elastec pneumatic skimmers are fitted with air motors that conform to EC Directive 94/9EC (ATEX 100a) for zones 1 and 2 (Group II, category 2, Gas and Dust Atmospheres) and a maximum surface temperature of 275 F / 135 C.

Air requirements;

Skimmer only: 5 to 15 cfm , 50 to 100 psi.

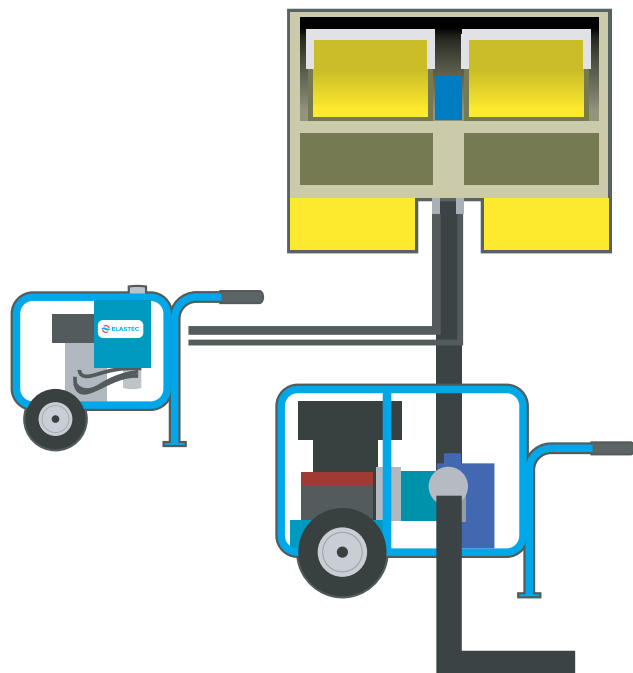
Skimmer and E1 pump : 10 to 35 cfm, 50 to 100 psi.

Recovered Oil Pumping



Oil recovered by the skimmer can be transferred by Lobe Pumps, vacuum systems or on-site pumping methods.

A vacuum truck can operate Elastec skimmers with auxiliary hydraulic or pneumatic circuits. Recovered oil can be vacuumed into the truck.



Hydraulic Power Units

Below are the most commonly used power units with the TDS118 skimmer.

*External suction pump required



D10 Kubota Diesel - 2 Circuits



D10 Yanmar Diesel - 2 Circuits



D10 Yanmar Diesel - 2 Circuits (with hi-flo tires and drop handles)



***D7 Yanmar Diesel - 1 Circuit**



***D7 Yanmar Diesel - 1 Circuit (with hi-flo tires and drop handles)**



E10 Electric - 2 Circuits



***E7 Electric - 1 Circuit**



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