

ELASTEC / MARCO

Portable Filterbelt

for Pollution Control



Oil Spill Equipment | Floating Barriers | Incinerators



The Portable Filterbelt is an oil skimmer belt system that filters oil (and debris) from the water and elevates it up into a collection hopper. This system has been incorporated into 279 custom built oil skimming vessels worldwide since 1973. It is now available from Elastec in a portable platform that can be deployed from vessels of opportunity such as landing craft, barges and fishing boats. Formerly called the Marco SideWinder, this skimming technology has been tested by the US Navy and at Ohmsett. The SideWinder was deployed in several oil spills in previous years, including the Exxon Valdez incident in 1989. The devices recovered 2,400 to 3,600 gallons per hour of heavy oil.

The Portable Filterbelt can be used in both stationary and advancing modes, with or without booms. It features an induction pump which pulls oily water through the belt. Due to the nature of the belting material, primary separation of oil from water takes place at the surface of the water. Once the belt reaches the top, heavy oil and debris are removed by the scraper and drain into the collection hopper. Light oils can be recovered using optional pads attached to the belt passing through a squeeze roller. The hopper is fitted with both a screen for debris separation and a siphon system so that any collected water can be returned onto the belt.

The skimmer is extremely effective recovering the most viscous and debris-contaminated material while maintaining free water recovery proportions under ten percent.

The Portable Filterbelt is available in several lengths and is packaged with a hopper, hydraulic hoses and mounting assemblies. Options available are diesel-driven hydraulic power units, recovered oil transfer pumps, Filterbelt pads (for light oil) and trash/debris sacks. The skimmer is compatible with Elastec's D10 hydraulic power pack.

Oil Recovery Rate (ORR)

Group 2: Persistent oils up to 145 gpm / 33 cu.m per hour (using lube & crude recovery pads)

Group 3 & 4: Persistent oils up to 300 gpm / 68 cu.m per hour (using the backing belt only)

Specification

Skimmer Frame Length:	15 ft / 4.5 m (Other sizes available on request.)
Belt Surface Length:	14 ft / 4.2 m
Belt Surface Width:	1 ft / 0.3 m
Weight:	395 lb / 179 kg
Max Working Angle:	30 °
Max Operation Height*:	44 inch / 1.11 m above water surface
Hydraulic Requirements:	Belt: 6 gpm / 23 lpm @ 2,500 psi / 172 bar
	Induction Pump: 4 gpm / 15 lpm @ 2,500 psi / 172 bar
Collection Hopper:	130 gallon / 492 litre
Dry Weight:	125 lb / 57 kg



The Portable Filterbelt can be deployed over the bow or side of the vessel - emptying a boom sweeping system, for example. It has been re-introduced due to its unique ability to recover debris entrained oil - a challenge that responders are commonly faced with still today.



A 2015 U.S. Government report, "Oil Pollution Research and Technology Plan" issued by the Interagency Coordinating Committee on Oil Pollution Research (ICOPR), concluded that research on "equipment and techniques to manage and dispose of oil, oily water, oiled soils, and oiled debris recovered during both on-water and on land oil pollution incidents" is a priority.



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