



Filterbelt Boat

31ft Fast Response Oil Skimming Boat



Oil Spill Equipment | Floating Barriers | Incinerators

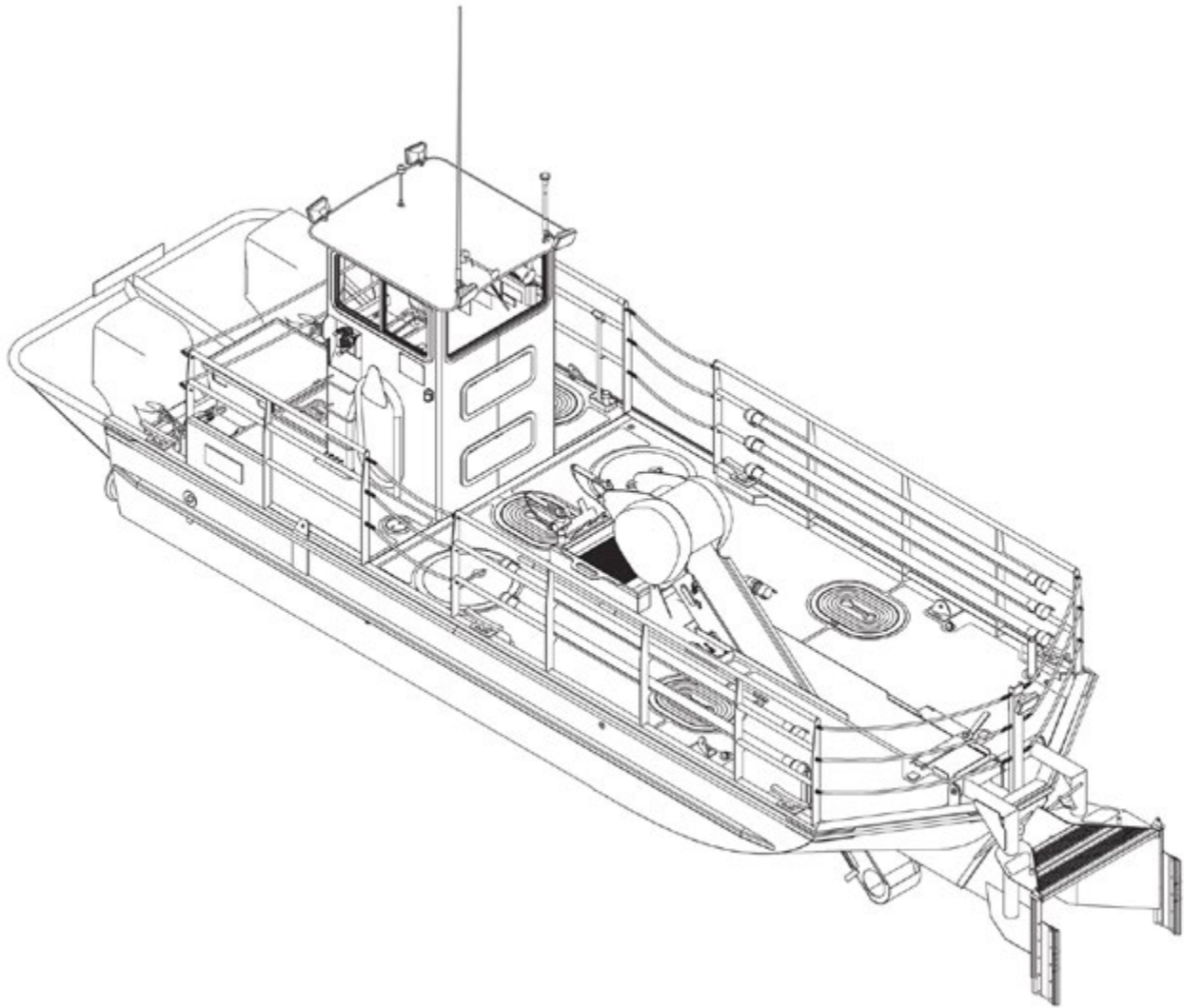


The 31ft Kvichak/MARCO Filterbelt boat is a rapid response skimming vessel that can operate in protected waters such as ports, harbors and inland environments. The lightweight construction allows this boat to rapidly arrive on scene and immediately start cleanup operations. The boat incorporates an advancing filter belt skimmer that enables the boat to skim oil while going through the water with high efficiency.

The system is able to screen debris and entrained solids from the oil, which is then retained on board in recovered oil tanks. Once full, the boat can quickly transit to the disposal location where the oil is pumped from the holding tanks using the integral offloading system.

Originally known as the MARCO Class I Skimmer, this fully integrated vessel has been continually refined and improved over the past 30 years. It is widely used by the US Navy, foreign governments and commercial contractors around the world with over 100 units in operation worldwide. The 31ft “Wide” version is a model that offers greater recovered oil storage, reduced draft and a larger working deck.

Packaged on a trailer, the boat can be shipped internationally or towed to the deployment location.



Integrated folding sweeps are stowed forward on deck and deployed by lowering into the water to provide a 4-foot wide inlet for skimming at up to three knots. Sweep extender plates increase the width to more than 7 feet for skimming at a knot or less. The boat comes equipped with boom adapters that accommodate ASTM boom connectors for enhanced, towed V-Sweep skimming operations. The Filterbelts integral induction pump even allows it to operate in a stationary mode.

Interchangeable filtering “pads” allow the Filterbelt to recover a wide range of oils, from fresh jet fuel and diesel oil, up to the heaviest weathered oils and “mousses.”

Oil and debris is conveyed to deck level and removed from the Filterbelt. Debris is separated from the recovered oil as it passes through the debris basket and into the collection well. An automatic decanting system in the collection well increases recovery efficiency by allowing recovered water to be discharged back through the Filterbelt. Recovered oil is then transferred to one of the three recovered oil tanks onboard, and can be pumped directly to a supplemental storage device.

Oil Skimming Performance;

Group 1: Non-persistent oils up to 50 bbls/hr / 8 cu.m per hour (using sheen or diesel/jet fuel recovery)

Group 2: Persistent oils up to 207 bbls/hr / 33 cu.m per hour (using lube & crude recovery pads)

Group 3 & 4: Persistent oils up to 427 bbls/hr / 68 cu.m per hour (using the backing belt only)

Vessel Particulars

Crew	2 (minimum)
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Dimension & Capacities

Length, overall (including engine guard)	31 ft 3 inch / 9.5 m
Beam overall	9 ft 8 inch / 2.9 m
Draft, outboards down (light)	3 ft 11 inch / 1.2 m
Draft, outboards down (loaded)	2 ft 11 inch / 0.9 m
Height (light pole down - on trailer)	13 ft / 4 m
Height (GPS antenna up - in water)	10 ft 9 inch / 2.9 m
Height (GPS antenna down - in water)	9 ft 3 inch / 2.8 m
Propulsion fuel capacity (Gasoline), usable	50 gal / 189 liters
Auxiliary power fuel capacity (Diesel)	20 gal / 76 liters
Hydraulic Oil Reservoir	17 gal / 64 liters
Oil recovery tanks - total	1,300 gal / 4,920 liters
Displacement, lightship	7,300 lb / 3,311 kg
Displacement, full load	18,500 lb / 8,391 kg

Mechanics

Engines	Two 90 HP 4-stroke outboards
Transfer pump	240 gpm @ 30 ft head / 908 lpm @ 9 m
Hydraulic Power Unit	
Bilge Pump	

Road Trailer

Trailer weight	3,133 lb / 1,421 kg
Maximum gross weight	12,733 lb / 5,776 kg
Length	39 ft / 11.9 m
Width loaded with boat	10 ft 2 inches / 3.1 m

Additional Equipment

Three Personal Flotation Devices
Throw Ring
Boat Hook
Initial Outfit Spares Package



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