

NEATSWEEP®

PRECISION DISPERSANT SYSTEM



Oil Spill Equipment | Floating Barriers | Incinerators



The patented ELASTEC NeatSweep® system modernizes the application of oil spill dispersant. The system incorporates a pair of booms that sweep and funnel oil on the surface of the water to the Dispersant Application Zone (DAZ). The towing of the system can be simplified with the addition of an Elastec BoomVane™, allowing for a single ship operation.

The NeatSweep offers a number of advantages over conventional ship mounted spray systems such as arms or nozzles. Firstly, the dispersant is applied well astern of the vessel avoiding blow back and exposure to the crew with chemicals. It is applied at a correct height and droplet size for optimal dispersion on a concentrated layer of oil that has been funneled to the DAZ. The system automatically adjusts the application rate according to the speed of the vessel. Finally, a mixing panel behind the DAZ adds disruption to help the process.

A computerized monitoring system controls the rate of dispersant application, reducing waste. It senses the speed of the system through the water and self-adjusts the pumping rate. Oil enters the DAZ in uniform thickness allowing more precise dosing and targeting.

The system includes two sections of AirMax boom, computerized oil spill dispersant pumping unit, DAZ and mixing panel. This system allows the neat (full concentration) application of oil spill dispersant directly onto the oil. As the setup is more efficient, more oil can be treated with each deployment. Most importantly, the system operates at a safe distance from operators, reducing their exposure to wind-blown chemicals. Independent tests at Ohmsett confirm efficiency of up to 92%.

Reel Specification



Elastec boom reels are built for safe and controlled deployment and recovery of the boom. The boom reel is hydraulically controlled to assist in the deployment and retrieval.

The boom inflator is mounted on the reel and allows for simultaneous inflation of the boom wings.

- Heavy-duty hydraulic motor and gearbox
- Steel base with aluminum spool
- Steel base shot blasted, primed and epoxy painted

Reel Dimensions:	116 x 73 x 84 inches
	2.95 x 1.85 x 2.13 m
Weight loaded:	2,600 lb / 1,180 kg

Optional equipment: lifting sling, ISO corners, double entry fork pockets

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Power Unit Specification



The D9 is a compact and portable diesel-driven hydraulic power unit for operating a boom reel fitted with controls. It features a hand and electric start diesel engine mounted in a steel cage frame. The open style allows excellent access for maintenance.

Drive:	Air cooled 9hp Yanmar diesel engine with 12 volt electric and recoil hand start
Max Hydraulic Output:	4.2 gpm / 16 lpm
Max Pressure:	2,500 psi / 172 bar Single hydraulic circuit
Frame:	Skid mount with lifting bracket

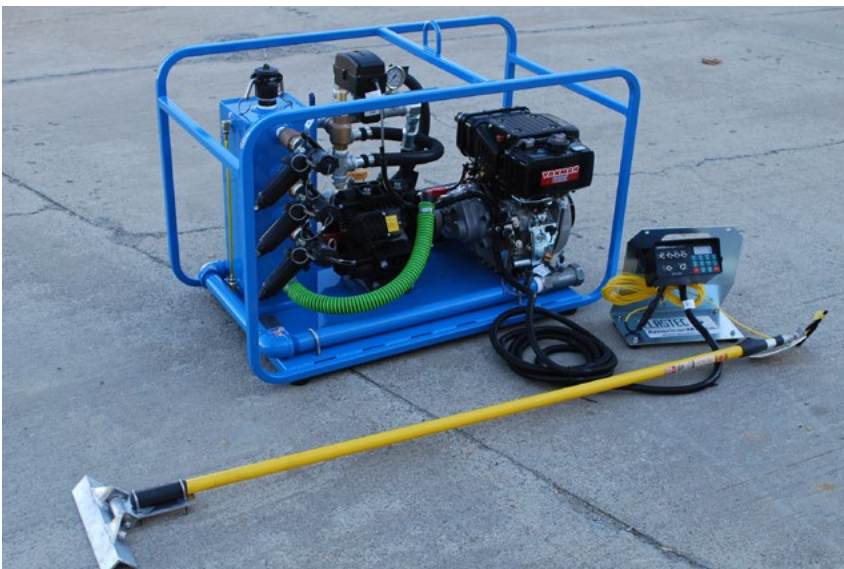
Hydraulic Tank:	8 gallons / 30 litres Spin-on-return filter, fluid level and temp gauges, tank top filler/strainer
Fuel Tank:	1.25 gallons / 4.7 litres
Hydraulic Quick Couplings:	Stainless Steel
Lifting:	Central lift point
Dimensions:	32 x 28 x 38 inch / 0.81 x 0.71 x 0.97 m
Weight:	280 lb / 127 kg
Fabric Cover:	Included

Dispersant Pump Specification

The system includes a monitoring console with manual and automatic settings which are pre-set to apply the dispersant relative to the sweeping width. The flow-rate automatically adjusts with the speed of the boat.

Output:	Max 21 gpm / 79 lpm dispersant pump, belt driven
Drive:	Air cooled 6.4 hp / 4.8 kW Yanmar diesel engine with 12 volt electric start
Dimensions:	47 x 25 x 33 inch / 1.9 x 0.64 x 0.84 m
Weight:	400 lb / 181 kg

System includes tow bridles, dispersant hose, tow ropes and accessories.





Dispersant Application Zone / Deflection Boom Specification

The Dispersant Application Zone (DAZ) is an inflatable structure fitted with boom connectors, dispersant spray nozzles and a panel that trails behind to mix the oil and dispersant together. The deflection boom is made up of eight sections of AirMax inflatable oil containment boom, manufactured from high quality Urethane fabric. Each wing is 300ft / 91m long and fitted with two cross wires at intervals. AirMax has individually filled air chambers, each chamber being equipped with the patented Monsun valve.

Freeboard:	16 inches / 406 mm
Draft:	10 inches / 254 mm
Connectors:	ASTM Universal Slide
Color:	High visibility safety orange
Ballast:	Galvanized chain in double layer fabric pocket
Fabric:	28 oz / 950 gsm Urethane (+/-2)
Splash Over Prevention:	Top fin
Handles:	Fitted at regular intervals along the top of the boom
Standard Inflation Pressure:	0.75 psi / 0.05 bar
Air Valves:	Monsun type
Shipping Information:	Normally supplied on a reel included with the system
Cleaning:	Industrial detergents, pressure washing



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