

ELASPRAY DISPERSANT SYSTEM TECHNICAL DESCRIPTION



ElaSpray is a portable dispersant spraying system for use at harbors and offshore oil spill response operations. The system is designed for easy installation on tugboats, offshore supply vessels or other types of vessels. The system contains a compact diesel engine driven pump for spraying dilute or neat dispersant. A set of two marine grade aluminum spray arms are mounted on the supporting post and secured by the topping wires. Each standard spray arm is mounted with 5 spray nozzles.

System is supplied with suction / discharge hoses, plates ready to mount on the vessel, pump set with pressure gauge and flow controls.

Pump Specification

Engine	6.4 hp / 4.8 kW Tier 4 (5.8 hp / 4.3 kW Net Continuous) Diesel engine with recoil start (optional electric start available)
Pump	Stainless steel positive displacement pump
Pump Capacity	22 gpm / 83 lpm
Pressure	100 to 300 psi intermittent / 6.8 to 20 bar
Dimensions	32 x 25 x 28 in / 0.81 x 0.63 x 0.71 m
Weight	202 lb / 92 kg (when fueled)
Valves	Two outlet valves
Flow Control	Flow bypass with pressure relief valve, dispersant suction with needle control valve, pressure gauge to monitor discharge
Frame	Stainless steel cage frame with central lift point

Spray Arm Specification

Spray Arm	Two 20 ft / 6 m Marine grade aluminum arms (nominal)
Support Post	Two 5 ft / 1.5 m with pins for securing spray arms
Fore / Aft Stays	Included
Topping Wires	Stainless steel wires and connectors
Nozzles	Ten low drift type (5 per arm)
Delivery Hoses	Two 15 ft / 4.6 m long hoses (1 inch / 25 mm)
Dispersant Suction Hose	One 15 ft / 4.6 m long hose (1 inch / 25 mm) with barrel pipe
Seawater Suction Hose	One 15 ft / 4.6 m long hose (1 inch / 25 mm) with foot valve and strainer
Nozzle Down Hoses	42 inch / 1.07 m with nozzle couplings
Ship Side Fittings	Two for welding to deck or gunwale top
Optional	Shorter 13 ft / 4 m arms, spares kit, spark arrestor

