

DISPERSANT SINGLE NOZZLE SPRAYING SYSTEM

BOATSPRAY 200 (AYLES FERNIE)



GENERAL DESCRIPTION

The BOATSPRAY 200 is a portable dispersant spray system designed for the application of concentrated or diluted dispersant using AFEDO even dropout nozzles for operation from tugs, offshore supply vessels and workboats

MAIN COMPONENTS

The system features a compact Diesel Pump Unit for neat or dilute dispersant spraying, a set of AFEDO Nozzles with all necessary, hoses and fittings.



KEY CHARACTERISTICS

The BS200D2F-TS is fully portable as it is diesel engine powered and the AFEDO nozzles are fitted with universal clamps which allow the AFEDO nozzles to be secured to any convenient structure such as the vessels rails and gunwales.

The nozzles have a total swath width of 36m. The system can provide a wide range of dispersant application rates by altering the dispersant flow rate.

TECHNICAL SPECIFICATIONS PUMP UNIT (NEAT OR DILUTE SPRAYING)

- Motive Unit: Diesel Engine with Recoil Start.
- Pump: Roller Type Positive Displacement Pump 220 LPM Max Capacity.
- Pipework: Stainless Steel & Gunmetal.
- Eductor: Proportioning type (0-30%)
- Frame: Stainless Steel.
- Valves (Manual): 2 No. Outlet Valves
 - 1 No. Recirc Flow Control Valve
 - 1 No. Dispersant Control Valve
- Flowmeter: Outlet and Dilute Flow Rate Indicators
- Pressure Relief Valve: 0 to 10 Bar.
- Pressure Gauge: Dual Scale



TECHNICAL SPECIFICATIONS AFEDO NOZZLES

- Nozzles: 2 No. AFEDO 75 Nozzles
- Hoses: 2 No. Delivery 25 N.B. x 5 m long.

STORAGE & TRANSPORT

To provide weather protection and security for the equipment, the system is supplied within an aluminium storage box. This purpose designed box stores all system components securely thus ensuring that the system is complete and ready for deployment and operation at all times.

The storage box is equipped with a lockable drop down ramp for easy loading/unloading, lifting eyes, fork pockets and pump unit restraint straps.

The deck space required is based on the storage box plus pump unit (when deployed) footprints:

Storage box:

- L: 125 x W: 127 x H: 103 cm Footprint: 3.24 m²
- Pump Unit: L: 100 x W: 90 x H: 74 cm
- Empty Weight: 95 kg
- SWL: 250 kg
- Typical Gross Weight: 345 kg



OPERATIONS

The system can be operated completely independently of the storage box, which can be used on or off the vessel.

The system can be used with just one nozzle for certain operational conditions such as cross wind spraying. The dispersant flow rate is fully adjustable using dilute mode for low application rates and neat mode for higher rates when oil conditions are more demanding i.e. emulsified, weathered or high viscosity oils. Dispersant flow can be varied from 0-150 LPM by utilizing both neat and dilute modes of operation.

The downwind spraying allows double nozzle spraying in wind speeds up to about 20 knots. In higher wind speeds, cross wind spraying techniques can be used in wind speeds over 20 knots.

The system can be prepared for operation within 30 minutes and operated by two people.