



CHARACTERISTICS OF DIP 4500 OIL SPILL RESPONSE VESSEL



Overall Dimensions & Weight

| | |
|----------------------------|---------------------|
| Length: | 57.0 feet (17.40 m) |
| Beam: | 18.7 feet (5.70 m) |
| Draft-light: | 5.25 feet (1.60 m) |
| Draft-loaded: | 5.9 feet (1.80 m) |
| Freeboard-light: | 3.28 feet (1.00 m) |
| Overall Height: | 26.4 feet (8.05 m) |
| Displacement-light: | 20.38 t (metric) |
| Displacement-loaded: | 50.71 t (metric) |
| Material: | Aluminum 5083 H321 |

Electronics

| | |
|--|---|
| Radar | 16 nautical miles range monochrome display |
| GPS | 1 unit with WAAS capacity with external antenna |
| VHF | 2 unit 25W/1W with antenna |
| Compass | 5" with lighting |
| Electronic Engine Control System | Single lever, dual function per engine |
| MCP and MCA panel with instruments for water temperature, oil pressure, tachometer, hour meter, visual and audible alarms for high temperature and low oil pressure and emergency engine stop. | |

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Hydraulic System

Pump Type: Pressure Compensated
Output: 45gpm (170l/min)@1800psi
Reservoir: 450l

Electrical

Main Generator 7,5kVA 220V 60Hz
Auxiliary Generator 5,0kVA 220V 60Hz
Ground: negative

Oil Recovery & Collection System

Type:..... Dynamic Inclined Plane (DIP)
Transfer Pump:..... Screw Pump
Pump Capacity:440gpm (100m³/h)
On board recovered oil storage:6.600 gallons (25.000l)

Pumps

Bilge/Fire 2 electric drive 7,5hp 176gpm (40m³/h) 28psi
Bilge/Fire 2 MCP drive 88gpm (20m³/h) 31psi
Bilge emergency 2 Ruler 3700gph (14m³/h)
Macerator/waste 1 unit 12gpm (2,725lph)
Fresh water..... 2 units 3.5gpm (780lph)

Debris Collection System

Expanded metal mesh removable trap/basket

Performance Characteristics

Transit Speed: 12 knots
Cruising range 700 Nautical Miles
Working Fuel Range: 58 hours
Working Sea Conditions: 4'6" (1.4m) waves
Oil Recovery Rate: 440gpm or 100m³/hour
Oil recovery Efficiency: 90-99%
Oil Throughput Efficiency: 99% @1 knot & 74% @ 2.5knots
Oil Skimming Speed: 1-3 knots

Optional

Optional fire fighting capability can be provided with a remote controlled monitor of 2" and maximum capacity of 350gpm (1,325lpm) and pump of 264gpm (60m³/h) and 150psi.



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