

DEEPWORKER SPECIFICATIONS

A. CLASSIFICATION

Manned Submersible by Lloyds of London Registry

B. DIMENSIONS

1. OVERALL

- a. Length 7'4" (2.23m)
- b. Beam 5'1" (1.54m)
- c. Height 5'11" (1.80m)
- d. Weight 3600 lbs (1633 kg)
- e. Payload 250 lbs (113.3 kg)
- f. Gross Weight 3850 lbs (1746 kg)

2. PRESSURE HULL

- a. Pilot 38" (96.5 cm) sphere attached to a 24" (60.9 cm) diameter by 36" (91.4 cm) long cylinder
- b. Viewing Dome/ Hatch Acrylic 30" (76.2 cm) diameter
- c. Hatch Opening 23.3" (59.18cm)

C. POWER

- a. Battery Two Dry Pods 18" (45.7cm) diameter by 5'10" (1.77m) length each containing 10 high amperage deep cycle AGM batteries providing 48 amp/hrs at 240VDC. Nominal capacity 12 KWH.
- b. Reserve Battery internal 12 VDC to power the underwater telephone and scrubber
- c. DC-DC converter provide 24 VDC at 8 amps and 12 VDC at 4 amps

D. PROPULSION

- a. Four 1 HP Brushless DC Thrusters fixed position Two Horizontal and Two angled Verticals

E. OPERATING CHARACTERISTICS

1. Depth 0-2000ft (610m)
2. Speed 3-4knots max

F. LIFE SUPPORT

1. Endurance 80 man hours
2. Carbon Dioxide Scrubbers Two electrically operated scrubbers with 12 lbs of absorbent each plus adaptors to operate in the emergency lung powered mode
3. Emergency Breathing provided by the Built In Breathing System (BIBS)
4. Oxygen Monitoring an electronic oxygen monitor reads and displays the % of oxygen in the atmosphere and a redundant bellows oxygen injector supplies the metabolic bleed to the cabin from two externally mounted oxygen cylinders
5. Carbon Dioxide Monitoring is provided by an electronic CO2 analyzer