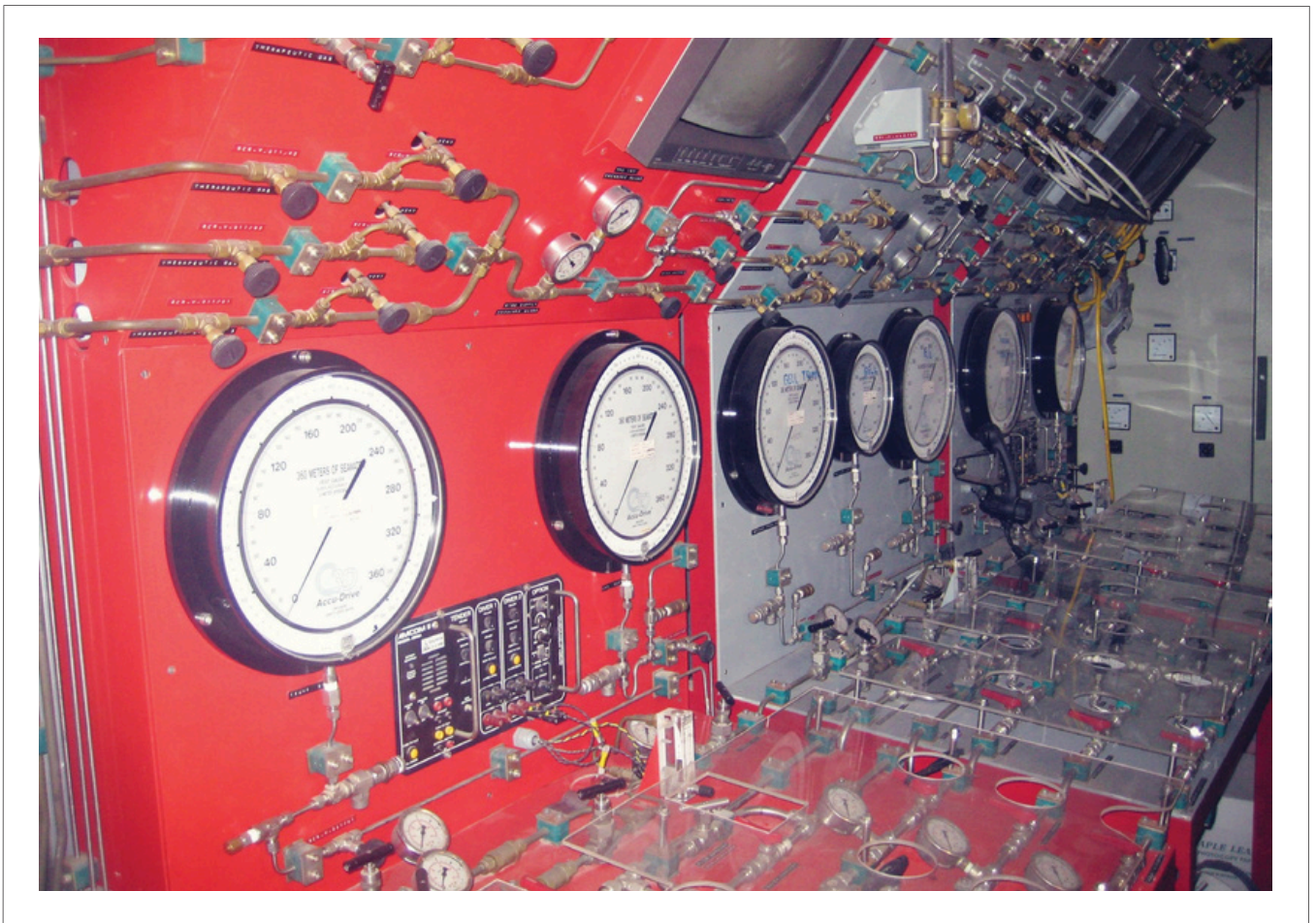




SATURATION DIVING SYSTEM

SAT IV

The SAT IV Saturation Diving System from Al Raiedah Underwater LTD is engineered for underwater tasks at depths of up to 200 meters. It can host a team of 6 divers, allowing continuous diving operations throughout the day. SAT IV is equipped with its own Hyperbaric Rescue Chamber (HRC) to evacuate saturated divers in case of emergencies like fire or vessel sinking. With a modular structure, SAT IV is adaptable and capable of supporting diverse subsea operations, spanning from intensive to more moderate saturation tasks.



SYSTEM HIGHLIGHTS

- ▲ Maximum working depth of 200 m.
- ▲ Capacity to hold six men in saturation.
- ▲ System includes a Hyperbaric Rescue Chamber (HRC).
- ▲ Diving bell can accommodate two divers.
- ▲ Gantry launch system for the diving bell.
- ▲ Area occupied by the SAT system is approximately 196 m2 (inclusive of all auxiliary equipment).



SYSTEM SPECIFICATIONS

DDC SPECIFICATIONS

Year of Manufacture: 1978
 Working Pressure: 20 Bar
 Over Test Pressure: 20 Bar
 Internal Diameter: 2133 mm
 Volume: 24.1 m³

DIVING BELL

Year of Manufacture: 1978
 Design Depth: 200 meters
 Working Pressure: 20 Bar
 Over Test Pressure: 30 Bar
 Personnel Capacity: 2 divers
 Volume: 5 m³
 Length: 1250 mm
 External Diameter: 1905 mm

BELL LAUNCH AND RECOVERY SYSTEM

Type: Gantry
 Winch Capacity: 10 Tons
 Wire O/D: 38 mm

BELL MAIN UMBILICAL

Length: 225 m
 Umbilical O/D: 86 mm

UMBILICAL SERVICES

4 x 1/4" Pneumo Lines
 2 x 1/2" Gas Supply Lines
 1 x 3/4" Reclaim Line
 1 x 3/4" Hot Water Line
 2 x Mini TV Cables
 2 x Power Cables
 2 x 14 Core Communication Cables

HYPERBARIC RESCUE CHAMBER

Year of Manufacture: 2006
 Max Working Pressure: 20 Bar
 Over Test Pressure: 30 Bar
 Personnel Capacity: 8 divers
 Life Support: Independent
 Volume: 16.6 m³

HRC LAUNCH AND RECOVERY SYSTEM

Crane Launch
 Winch Launch
 Float Out
 Tow Out Using Independent Vessel

LIFE SUPPORT / ENVIRONMENT SYSTEM

Oxygen Analyzers
 Carbon Dioxide Analyzers
 Hydrocarbon Dioxide Analyzers
 Chillers
 Scrubbers
 Sanitary Facilities
 Freshwater Supply & Food Supply
 Illumination
 Noise Insulation

SYSTEM POWER REQUIREMENTS

440V~480V, 3Φ, 50/60 Hz, 236.8 kW

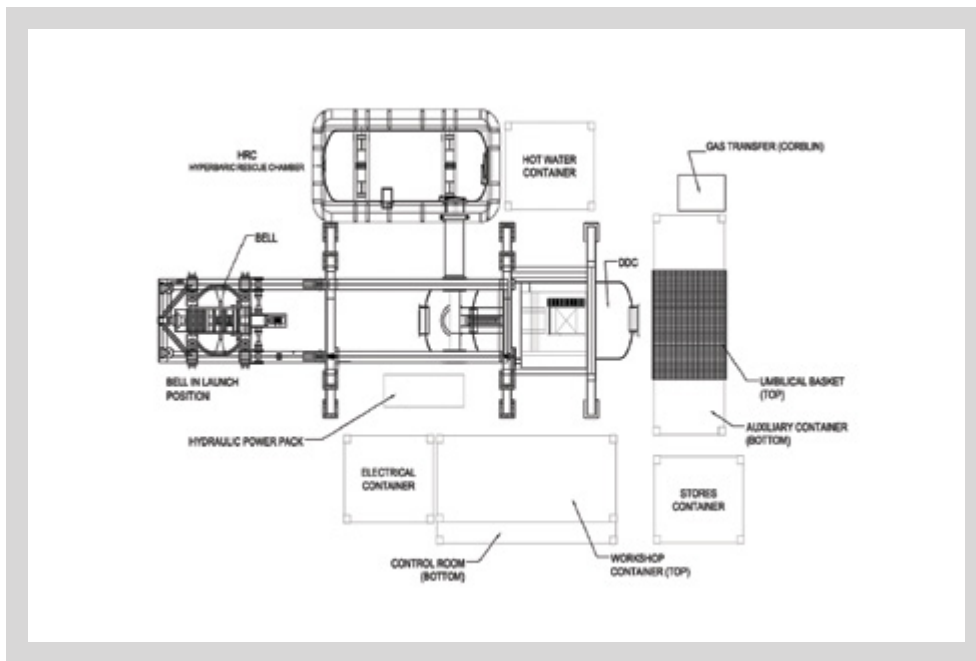
EMERGENCY POWER REQUIREMENTS FOR BELL RECOVERY

440V~480V, 3Φ, 50/60 Hz, 120 kW

DIVING SYSTEM PHYSICAL PROPERTIES

Main Skid c/w LARS:	10.7 x 5.4 x 5.6 m, 70 Tons
DDC:	2.8 x 2.8 x 2.9 m, 8.2 Tons
2 Men Bell:	2.5 x 2 x 2 m, 5.35 Tons
Control Room:	6.1 x 3 x 2.4 m, 6.5 Tons
Electrical Container	3 x 2.4 x 2.4 m, 3 Tons
Umbilical Basket:	3 x 2.5 x 2.1 m, 3.5 Tons
Auxiliary Container (x2):	6.1 x 2.4 x 2.4 m, 6.8 Tons
Gas Transfer (Corbin):	1.6 x 1.0 x 1.5 m, 2 Tons
Workshop Container:	6.1 x 2.4 x 2.4 m, 6 Tons
Stores Container:	3.0 x 2.4 x 2.4 m, 4.5 Tons
HRC:	6.4 x 3.2 x 2.2 m, 14 Tons

SYSTEM LAYOUT



Note: The technical specifications presented within this document are subject to change without prior notification. The information presented within this document are believed to be correct, but no guarantees of accuracy can be given.

