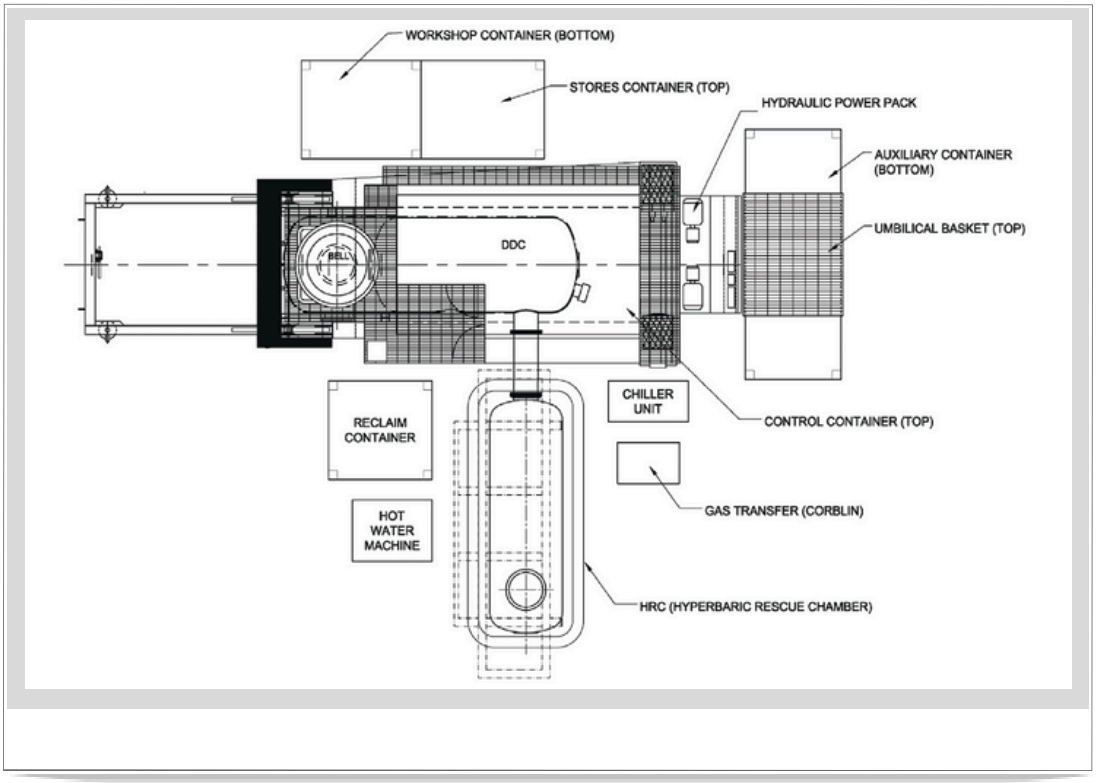
SATURATION DIVING SYSTEM

SAT III

The Al Raiedah Underwater LTD SAT III Saturation Diving System is tailored for underwater activities at depths of up to 180 meters. It can host a team of 6 divers, enabling continuous diving operations round the clock. Additionally, it features a Hyperbaric Rescue Chamber (HRC) to safely evacuate saturated divers in case of emergencies such as fire or vessel sinking. Modular in design, SAT III is versatile, catering to various subsea tasks, from intensive to less demanding saturation missions



SYSTEM HIGHLIGHTS

- Maximum working depth of 180 m.
- Capacity to hold six men in saturation.
- System includes a Hyperbaric Rescue Chamber (HRC).
- System can be configured in a variety of ways (i.e. in line, side by side or at right angles).
- Diving bell can accommodate two divers.
- A-Frame 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: 1976

Working Pressure:	20 Bar
Over Test Pressure:	22 Bar
Internal Diameter:	2200 mm
Volume:	21.5 m³

DIVING BELL

Year of Manufacture: 1982

Design Depth:	180 meters
Working Pressure:	18 Bar
Over Test Pressure:	19.8 Bar
Personnel Capacity:	2 divers
Volume:	3.5 m³
Length:	2185 mm
External Diameter:	1671 mm

BELL LAUNCH AND RECOVERY SYSTEM

Type:	A-Frame
Winch Capacity:	7.5 Tons
Wire O/D:	26 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: 1983

Max Working Pressure:	20 Bar
Over Test Pressure:	22 Bar
Personnel Capacity:	8 divers
Life Support:	Independent
Volume:	11.3 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, 200 kW

EMERGENCY POWER REQUIREMENTS FOR BELL RECOVERY

440V~480V, 3Φ, 50/60 Hz, 111 kW

DIVING SYSTEM PHYSICAL PROPERTIES

DDC c/w Frame & Winch:	10.5 x 4.9 x 4.3 m, 55 Tons
2 Men Bell:	2.9 x 2.9 x 2.8 m, 5 Tons
Control Room:	6.1 x 2.9 x 2.8 m, 11Tons
Hot Water Machine:	2.0 x 1.5 x 2.4 m, 2 Tons
Reclaim Container:	2.6 x 2.4 x 2.4 m, 3.5 Tons
Umbilical Basket:	3 x 2.6 x 2.2 m, 3.5 Tons
Hydraulic Power Pack:	1.5 x 2.9 x 2.1 m, 4.3 Tons
Regeneration Container:	6.1 x 2.4 x 2.4 m, 9.5 Tons
Chiller Unit:	2.0 x 1.0 x 2.0 m, 2.5 Tons
Gas Transfer (Corblin):	1.6 x 1.0 x 1.6 m, 0.8 Tons
Workshop Container:	6.1 x 2.4 x 2.4 m, 7 Tons
Stores Container:	3.0 x 2.4 x 2.4 m, 7 Tons
HRC:	6.7 x 3.0 x 2.6 m, 13.2 Tons