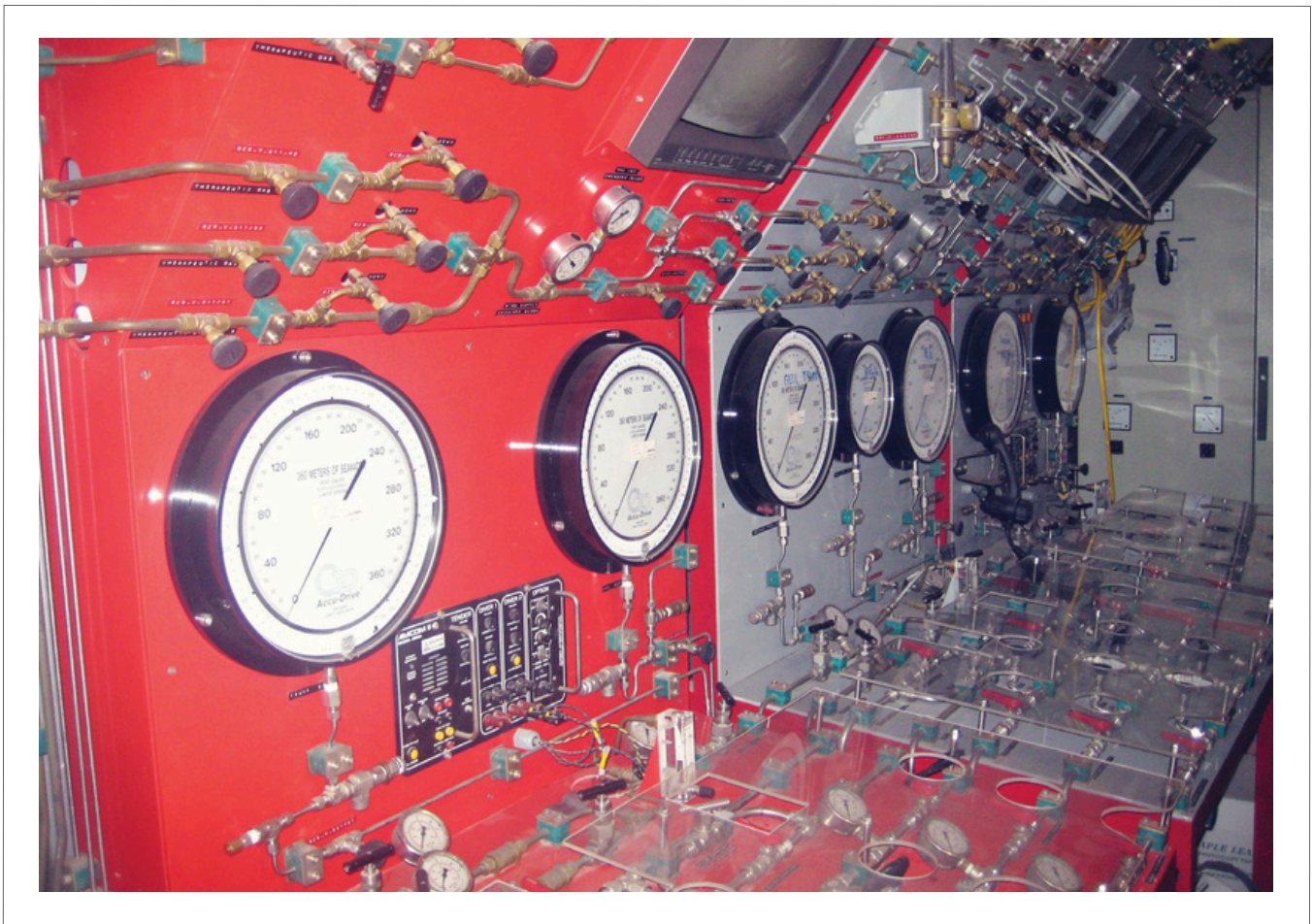




SATURATION DIVING SYSTEM

SAT V

The SAT V Saturation Diving System from Al Raiedah Underwater LTD is certified by ABS and is engineered for operations at depths of up to 200 meters. It offers flexibility in accommodating either 6, 9, or 12 divers, enabling continuous diving operations around the clock. SAT V is equipped with either its own Hyperbaric Rescue Chamber (HRC) or Self-Propelled Hyperbaric Life Boat (SPHL) to evacuate saturated divers in case of emergencies such as fire or vessel sinking. With a modular design, SAT V is versatile and capable of supporting various subsea operations, ranging from heavy to light saturation tasks.



SYSTEM HIGHLIGHTS

- ▲ Maximum working depth of 200 m.
- ▲ Capacity to hold six, nine or twelve men in saturation, single or double DDC each 6 man chamber. System includes 3 man diving bell. System includes either a 12 man Hyperbaric Rescue Chamber (HRC) or 12 man Self Propelled Hyperbaric Life Boat (SPHL).
- ▲ System can be configured in a variety of ways (i.e. in line, side by side or at right angles).
- ▲ A-Frame launch system for the diving bell (SWL 10 Tons).
- ▲ ABS Classed (ABS A1 SAT V - Saturation Diving System).
- ▲ Area occupied by the SAT system is approximately 255 m2 (inclusive of all auxiliary equipment).



SYSTEM SPECIFICATIONS

DDC SPECIFICATIONS

Year of Manufacture:	2009
Working Pressure:	20 Bar
Over Test Pressure:	30 Bar
Internal Diameter:	2320 mm
Volume:	31 m ³
Personnel Capacity:	6 Man
Quantity:	2 Nos.

LIVING/COME-OUT CHAMBER SPECIFICATIONS

Year of Manufacture:	2008
Working Pressure:	20 Bar
Over Test Pressure:	30 Bar
Internal Diameter:	1985 mm
Volume:	13.3 m ³
Personnel Capacity:	3 Man
Quantity:	1 Nos.

DIVING BELL

Year of Manufacture:	2009
Design Depth:	200 meters
Working Pressure:	20 Bar
Over Test Pressure:	30 Bar
Personnel Capacity:	3 Man
Volume:	6 m ³
Length:	2450 mm
External Diameter:	1945 mm

BELL LAUNCH AND RECOVERY SYSTEM

Type:	A-Frame
Winch Capacity:	10 Tons
Wire O/D:	32 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

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, 280 kW

EMERGENCY POWER REQUIREMENTS FOR BELL RECOVERY

440V~480V, 3Φ, 50/60 Hz, 180 kW

HYPERBARIC RESCUE CHAMBER (HRC)

Year of Manufacture:	2009
Max Working Pressure:	20 Bar
Over Test Pressure:	30 Bar
Personnel Capacity:	12 Man
Life Support:	Independent
Volume:	16.6 m ³

HRC LAUNCH AND RECOVERY SYSTEM

- Crane Launch
- Winch Launch
- Float Out
- Tow Out Using Independent Vessel

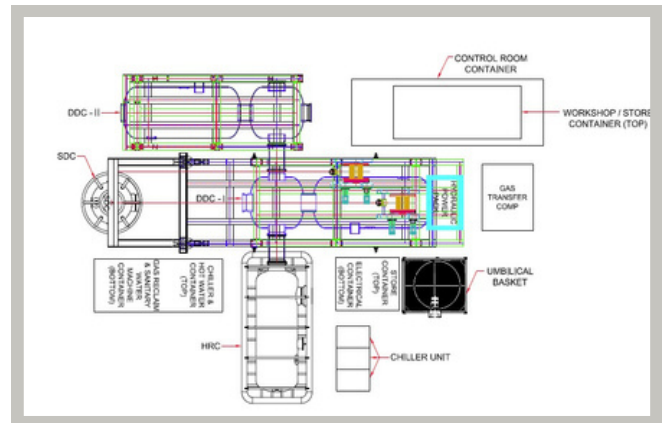
SELF PROPELLED HYPERBARIC LIFE BOAT (SPHL)

Year of Manufacture:	2016
Max Working Pressure:	20 Bar
Over Test Pressure:	30 Bar
Personnel Capacity:	12 Man & 4 crew

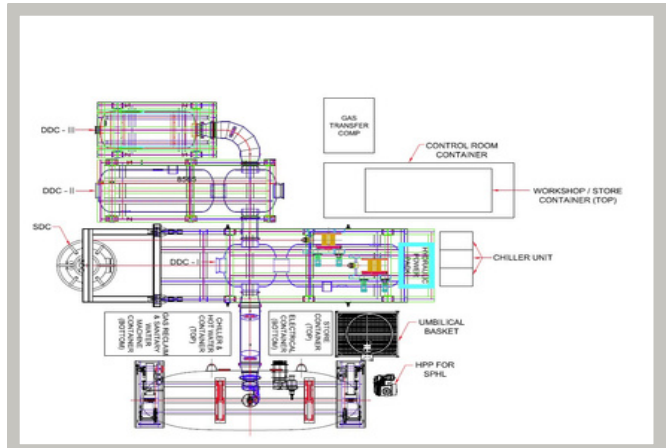
DIVING SYSTEM PHYSICAL PROPERTIES

Main Skid c/w LARS:	13.7 x 4 x 3.3 m, 40 Tons
DDC:	9 x 2.4 x 2.4 m, 20 Tons
3 Men Bell:	2.5 x 2 x 2 m, 5.35 Tons
Control Room:	6.1 x 2.9 x 2.8 m, 11Tons
SAT Control Container:	9.2 x 2.4 x 2.4 m, 10 Tons
Winches / HPP Frame:	2.5 x 2 x 2 m, 4 Tons
Auxiliary Container c/w:	6 x 2.4 x 2.4 m, 9 Tons
	i. Gas Reclaim System;
	ii. Hot Water Machine;
	iii. Sanitary Water Unit.
Chiller Container:	3 x 2.4 x 2.4 m, 5 Tons
Workshop Container:	6 x 2.4 x 2.4 m, 7 Tons
Stores Container:	3 x 2.4 x 2.4 m, 4 Tons
Fly Away Package Container:	3 x 2.4 x 2.4 m, 9 Tons
Gas Transfer Compressor:	1.7 x 1.52 x 1.2 m, 1 Tons
Main Umbilical Basket:	9.85 x 8.5 x 8 m, 3.5 Tons
HRC:	6 x 2 x 2 m, 12 Tons
SPHL:	10.5 x 3.3 x 1.28 m, 18.4 Tons

SYSTEM LAYOUT - HRC CONFIGURATION



SYSTEM LAYOUT - SPHL CONFIGURATION



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.

