

# 9-Man Classed Saturation System - 200m



## BUILT

Year built	: 2013
Classification Standards	: ABS Rules for building and classing underwater vehicles, system and hyperbaric facilities 2012
Compliance & Standard	: D024 Rev.1, Shell EPA GL0052 Rev.3, OGP 411, DNV2.7-1/2.7-3

## DIVE & SATURATION CONTROL UNIT

Drive/Bell Control Panels comprising :-

- Diver Gas reclaim control panel
- Bell service control
- Electrics, Communications, Analysers and Hot Water Temperature Monitoring
- CO<sub>2</sub> and O<sub>2</sub> Analysis of Diver's Gasses
- Through water emergency communications
- Diver color hat camera and video recording system controls
- Bell internal video monitoring and controls

Chamber/Life Support Control Panel, DDC, TUP & HRC comprising :-

- Communication System Control
- Chamber depth and atmosphere monitoring and analysis
- Chamber CCTV video monitoring and gas distribution supply panel

## HYPERBARIC RESCUE CHAMBER - 9 MAN

- Onboard emergency gas and battery power for 72 hours
- 9 man HRC c/w 1 x toilet, shower, wash basin
- 2 HCU, 10 x BIBS complete with dump, CO<sub>2</sub> scrubbers, medical lock & Communication transfer, 3 bunk beds
- Lifting frame, ringing, towing bridle
- Equipt with EPERP & Radar reflector
- Independent Diesel driven Hydraulic Power Unit for Launch & Recovery System
- 15T Man Riding which with Hydraulic quick release for deployment purpose

## LIFE SUPPORT MACHINERY CONTAINER 1, 2 & 3

- Electrical main & emergency power distribution system
- Dual diver hot water unit
- 3 x environmental control unit
- Chamber potable water unit (hot & cold)
- Air driven gas reclaim surface unit

## 3 MAN DIVING BELL

- 3 x Diver excursion umbilicals c/w reclaim hose
- 3 x Diver helmet mouted with color camera and light
- 2 x Bell CO<sub>2</sub> scrubber
- 1 x Bell heater
- 2 diver gas reclaim panel
- Bell/ Diver communication system
- On board Emergency Gas Cylinders and Power Battery
- Through water communications
- Hydraulic Bottom door system
- Internal and External lights

## HRC EMERGENCY CONTROL UNIT (FLY AWAY PACK)

- Control Panel
- Communication and Analysers
- Supplied with emergency hook-up umbilical
- Supplied with emergency gas

## CHAMBER VOLUME

Main DDC	: 16.6m <sup>3</sup>
TUP	: 6.7m <sup>3</sup>
HRC	: 13.5m <sup>3</sup>
BELL	: 4.5m <sup>3</sup>

## DDC (LC + TUP) TWIN LOCK CHAMBER

- 6 man living Chamber c/w 6 x Bunk Beds with Mattresses
- 7 x BIBS, 2 x HCU, CO<sub>2</sub> Scrubbers, Medical Lock & Communications Transfer

## TUP

- 3 x bibs complete with dump
- 1 x Toilet, Shower, Wash Basin, 1 x HCU, CO<sub>2</sub> Scrubber & Communications
- Chamber CCTV video monitoring and gas distribution supply panel

## WINCH SKID

- Main Bell Winch ( Hydraulic 10T Man Riding)
- Guide Wire Winch ( Hydraulic 8.5 T Double Reaved Man Riding Recovery to Bell Catcher Hooks)
- Umbilical Sheave (Hydraulic)

## OTHER EQUIPMENT

- 20FT ISO Store Container
- 260m Main Bell Umbilical with Basket
- 2 x KMB 18B Bend Mask
- 3 x Jewel 601 reclaim hats
- Deck electric and gas leads
- Spreader bar and lifting slings

## POWER & SERVICES REQUIREMENT

- Portable Water : 26 L/Min
- Sea Water : 196 L/Min
- LP Air : 420CFM @ 7Bar
- Electric Supply Main : 440v/3ph/60hz/720amps
- Electric Supply Standby : 440v/3ph/60hz/720amps

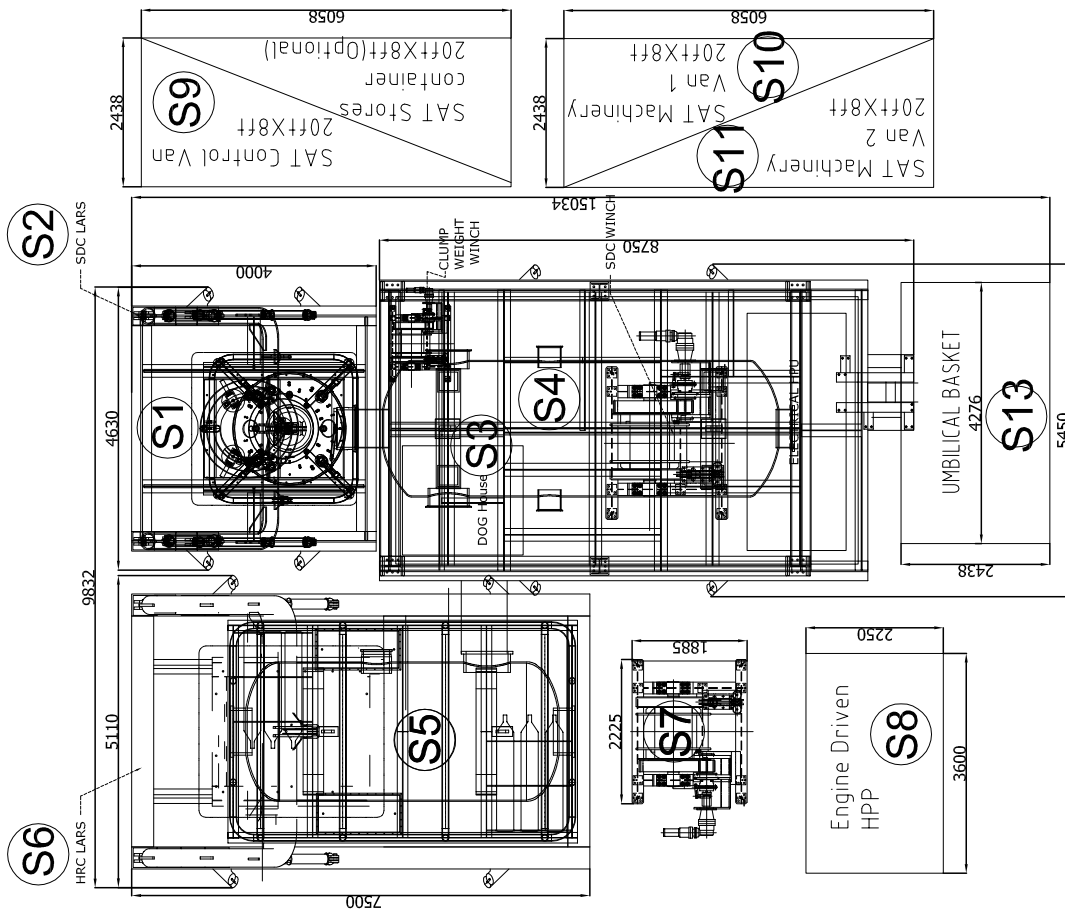
SYSTEM DIMENSIONS			
ITEM / DESCRIPTION	LENGTH (m)	WIDTH (m)	HEIGHT (m)
Main Chamber (including Bell & Skid)	11.027	4.276	5.582
HRC	7.86	4.5	6.634
Umbilical Basket	4.276	2.438	1.165
Dive Control Van	6.02	2.438	2.438
Life Support Machinery Van (MV1 and MV2)	6.02	2.438	2.438
Life Support Machinery Van (MV3)	3.048	2.438	2.438
HRC Winch	1.85	2.225	2.3
HRC Winch Diesel HPU	2.25	3.6	2.438

## SAPURAKENCANA ALLIED MARINE SDN. BHD.

(Formerly known as Allied Marine & Equipment Sdn Bhd)


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# 9-MAN CLASSED SATURATION SYSTEM - 200M



SAT SPREAD (SAT 01)

ITEM	DESCRIPTION	Dimension (LxWxH) In mm	WEIGHT	QUANTITY
S1	Submersible Decompression Chamber (SDC)	1800 ID X 2170 H X 30 THK	8.5 T	1
S2	SDC LARS	4000 X 4550 X 5421	12.5 T	1
S3	Top Skid Hpu/Winches/Doghouse	9265 X 5500 X 2750	35 T	1
S4	DDC With Skid	7120 X 5417 X 3287	25 T	1
S5	HRC (Chamber)	2000 ID X 6590 LX 19 THK	12 T	1
S6	HRC LARS Skid	7500 X 5100 X 6571	32 T	1
S7	HRC Dedicated Winch	2225 X 1885 X 2230	7 T	1
S8	Diesel Driven HPU	3600 X 2250 X 2350	9 T	1
S9	Dive Control Van Dnr 2.7-1	6058 X 2438 X 2743	14 T	1
S10	Machinery Van 1 Dnr 2.7-1	6058 X 2438 X 2743	14 T	1
S11	Machinery Van 2 Dnr 2.7-1	6058 X 2438 X 2743	14 T	1
S12	HRC Flyaway Control Van Dnr 2.7-1	3048 X 2438 X 2743	8 T	1
S13	Main SDC Umbilical with Basket	4276 X 2438 X 1165	5 T	1



**AME**  
ALLIED MARINE  
AND EQUIPMENT

DATE: 13.03.2014  
SCALE: 1:80  
DRAWING NO: TBA

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**9-MAN CLASSED SATURATION SYSTEM-200M LAYOUT PLAN**