

Surface Air Diving System (Class)



DESCRIPTION

Year Built	: 2013 - 2014
Manufacturer	: M.O.S Marine Offshore Services Pte. Ltd.
Classification Society	: ABS
Compliance Standards	: IMCA D018 & D023 Rev.1, OGP 411, Shell EPA GL.00052 Rev.3.
Design Standards	: ABS Rules for Building & Classing Underwater Vehicles, Systems & Hyperbaric Facilities 2012. DDC – PVHO 2012, ASME VIII. Lifting – DNV 2.7-1/ 2.7-3.
No of Systems available	: 4 systems (DS-08, DS-09, DS-10, DS-11)

DIVE CONTROL CONTAINER

- 20ft DNV/ ABS Container.
- 3 man Air/ Mixed Gas Dive Panel.
- Dedicated Diver LCD monitors, communications, oxygen monitoring systems, depth gauges and gas supply redundancy.
- Diver audio/ video system with DVD and hard drive recording suites.
- Ambient oxygen monitoring with audio visual alarm.
- 2.5KVA UPS Power Supply Units.
- Fixed and Portable Breathing Apparatus.
- Work stations for 3 additional personnel.
- Equipped with Emergency Lights, Smoke/ Heat Detectors & Portable Fire Extinguishers.
- 2 x 1800BTU Recessed Air Conditioning Units.

DECK DECOMPRESSION CHAMBER CONTAINER

- 20ft DNV/ ABS Container.
- 60" twin double lock deck decompression chamber.
- Medical Lock with safety interlock system.
- DDC operators panel with dedicated compartment communications, gauges & gas supply controls.
- BIBS with overboard dumps.
- 2 x Stainless Steel Bunks with fire retardant covers.
- Ambient oxygen monitoring with audio visual alarm.
- 2.5KVA UPS Power Supply Units.
- Fixed and Portable Breathing Apparatus.
- Equipped with Emergency Lights, Smoke/ Heat Detectors & Portable Fire Extinguishers.
- 2 x 1800BTU Recessed Air Conditioning Units.

MACHINERY CONTAINER

- 20ft DNV/ ABS Container.
- Electrical switchboard, transformers and power change over unit.
- 2 x Quincy 5120 LP Compressors.
- 2 x Bauer Mariner 320 HP Compressors.
- 18-20 GPM @ 3000psi Hydraulic Tooling Power Pack.
- Equipped with Ventilation Fans, Emergency Lights, Smoke/ Heat Detectors & Portable Fire Extinguishers.

LAUNCH AND RECOVERY SYSTEM (LARS) – 2 UNITS

- RAM Pneumatic Man Riding Main & Clump Weight Winches.
- 1T SWL Main Winch with 100m non-rotating wire Galvanise Grade 1960 MPa = EIPS.
- 1T SWL C/Weight Winch with 160m non-rotating wire Galvanise Grade 1960 MPa = EIPS.
- Divers Stage with entry and exit gates.
- 2 x 50L Dive Stage Emergency Gas Supply with 4 x 1st & 2nd Stage regulators, valves & hoses.
- Provisions for Dive Stage Secondary Emergency Lifting.
- Dedicated LARS Hydraulic Power Pack with 42 gallon capacity steel tank.

DIVERS UMBILICAL & PERSONEL EQUIPMENT

- 200m Gates umbilical with Supply hose, Pneumo hose, electrical, communication and video cables.
- 2 x Kirby Morgan KM37C helmet complete with underwater camera and lights.
- 1 x KM18B Band Mask.
- 7L and 11L Divers Bail Out Cylinders.
- 3 x 1st Stage Regulator complete with hoses, contents gauge and pressure relief valve.

SYSTEM OPERATIONAL REQUIREMENTS

- Main Power Supply : 3 phase 440V/ 50-60Hz/ 120kW
- Emergency Power Supply : 3 phase 440V/ 50-60Hz/ 80kW
- Industrial Air Supply : 270cfm @ 90psi

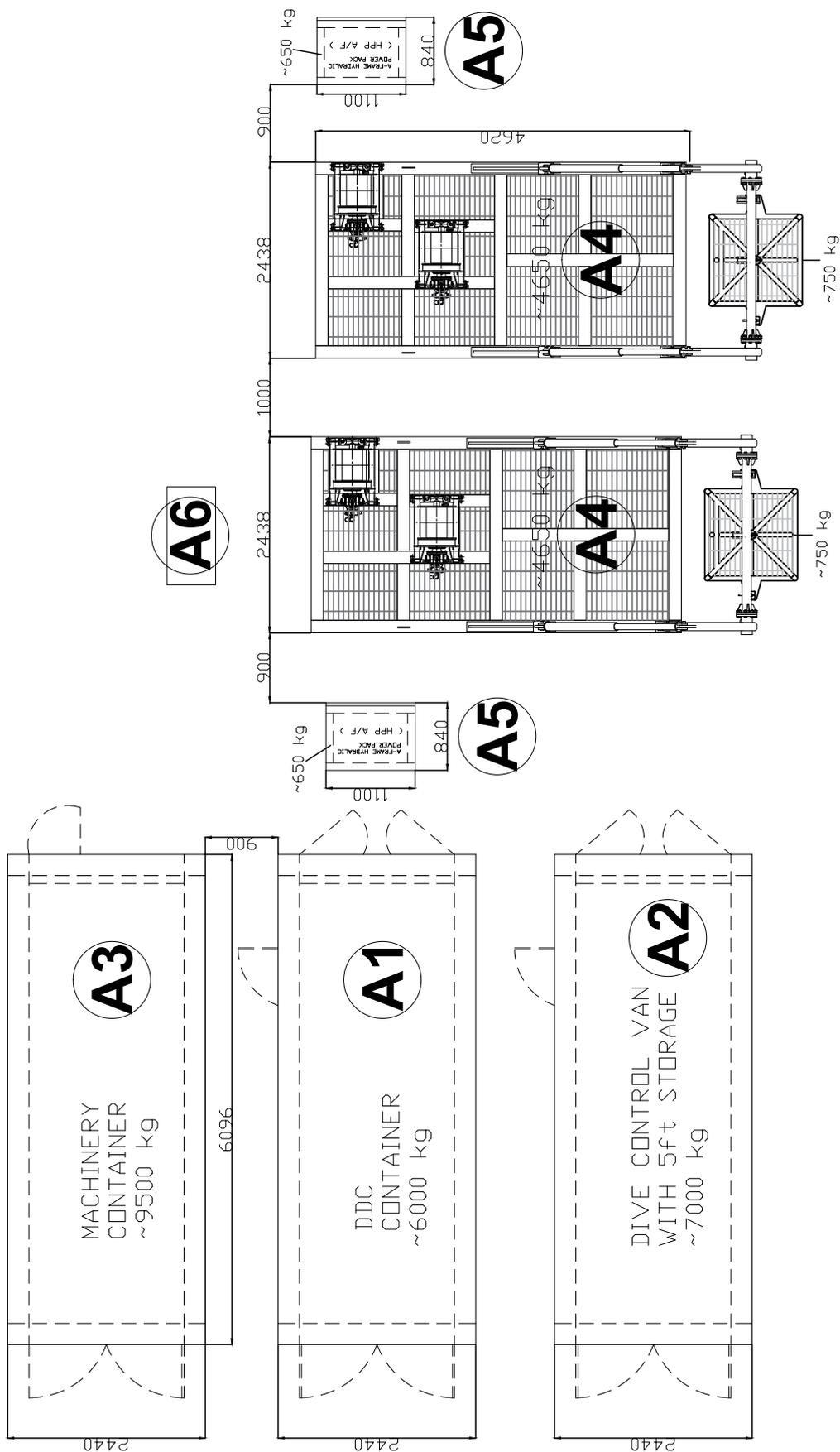


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SURFACE AIR DIVING SYSTEM (CLASS)



* LAYOUT MAY CHANGE
BASED ON VESSEL

NOTE:
* LARS SWL = 1250 KG
* CLUMP WEIGHT = 250 ~ 350 KG

ITEM	DESCRIPTION	DIMENSION (mm)	WEIGHT (kg)	QUANTITY
A1	DECK DECOMPRESSION CHAMBER CONTAINER	6058(L)x2438(W)x2743(H)	6000	1
A2	DIVE CONTROL CONTAINER	6058(L)x2438(W)x2743(H)	7000	1
A3	MACHINERY CONTAINER	6058(L)x2438(W)x2743(H)	9500	1
A4	LARS	4650(L)x2450(W)x3642(H)	4650	2
A5	HYDRAULIC POWER PACK	1150(L)x840(W)x1500(H)	650	2
A6	UMBILICAL RACK	1200(L)x600(W)x2100(H)	500	1

ALLIED MARINE
AND EQUIPMENT

DATE	SCALE	TITLE
BHZ	1:50	SURFACE AIR DIVING SYSTEM (CLASS) LAYOUT PLAN
DATE	PAPER/SHEET	
20.02.2014	A3	0
DATE	DATE	
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		TBA