

Surface Air Diving System



DESCRIPTION

Year Built	: 2010 - 2012
Compliance Standards	: IMCA D018 & D023 Rev.1
Design Standards	: DDC - PVHO 2012, ASME VIII.
No of Systems available	: 2 systems (AS-01 & AS-06)

DIVE CONTROL CONTAINER

- 20ft Standard ISO Container.
- 3 man Air 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.
- 3.0 KVA UPS Power Supply Units.
- Portable Breathing Apparatus.
- Equipped with Emergency Lights, Smoke/ Heat Detectors & Portable Fire Extinguishers.
- 2 x 1800 BTU Recessed Air Conditioning Units.

DECK DECOMPRESSION CHAMBER CONTAINER

- Housed within common container as Dive Control.
- 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.
- Ambient oxygen monitoring with audio visual alarm.
- Fixed and Portable Breathing Apparatus.
- 1.5 KVA UPS Power Supply Units.

MACHINERY CONTAINER

- 20ft Standard ISO Container.
- Electrical switchboard, transformers and power change over unit.
- 2 x LP Compressors.
- 2 x 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

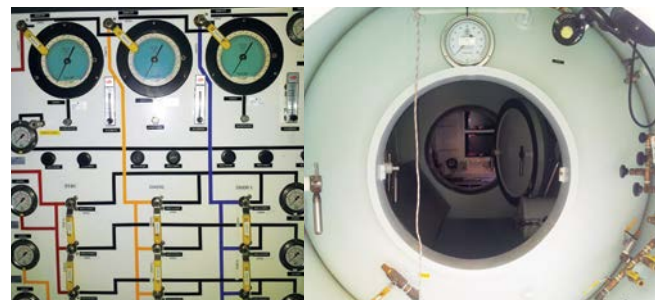
- RAM Hydraulic Man Riding Main & Clump Weight Winches.
- 1T SWL Main Winch with 100m non-rotating wire.
- 850kg SWL C/Weight Winch with 200m non-rotating wire.
- 750kg SWL Divers Stage with entry gate.
- 2 x 50L Dive Stage Emergency Gas Supply with 4 x 1st & 2nd Stage regulators, valves & hoses.
- Provisions for Dive Stage Secondary Emergency Lifting.
- Dedicated LARS Hydraulic Power Pack with 42 gallon capacity steel tank.

DIVERS UMBILICAL & PERSONEL EQUIPMENT

- 200m Fibron umbilicals with Supply hose, Pneumo hose, electrical, communication and video cables.
- 2 x Kirby Morgan KM27B/ KM17B helmet complete with underwater camera and lights.
- 1 x KM28B/18B Band Mask.
- 7L and 11L Divers Bail Out Cylinders.
- 1st Stage Regulators 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 |

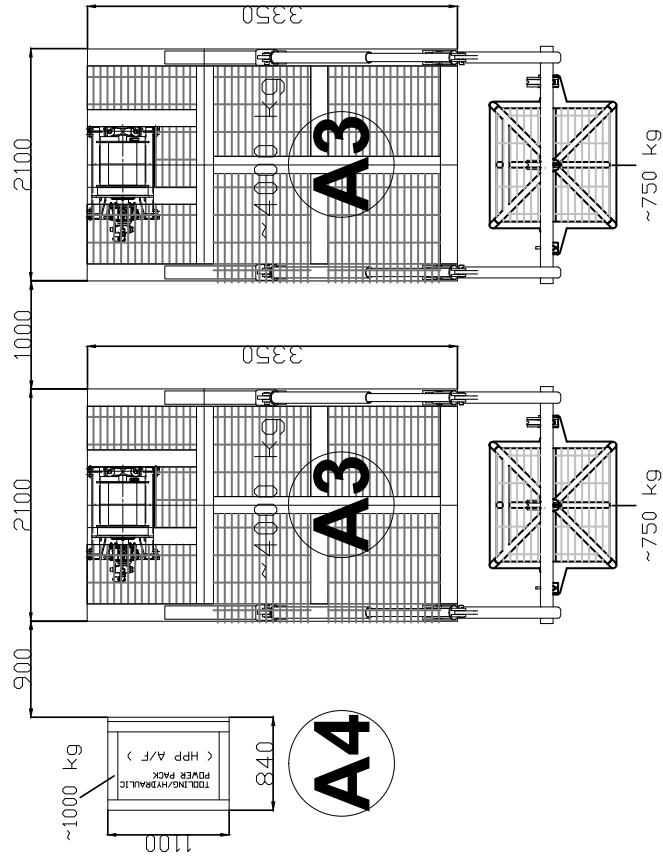
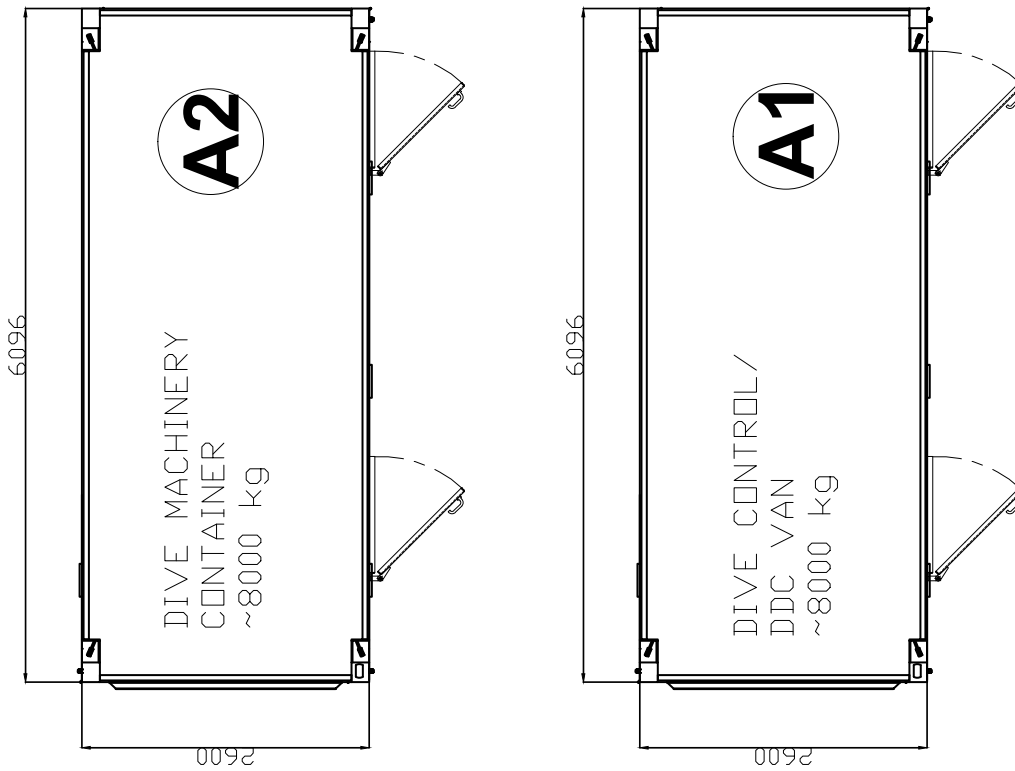


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SURFACE AIR DIVING SYSTEM



* LAYOUT MAY CHANGE
BASED ON VESSEL

ITEM	DESCRIPTION	DIMENSION (mm)	WEIGHT (kg)	QUANTITY
A1	DIVE CONTROL CONTAINER	6096(L)x2600(W)x2438(H)	8000	1
A2	MACHINERY CONTAINER	6096(L)x2600(W)x2438(H)	8000	1
A3	LARS	3350(L)x2134(W)x2763(H)	4000	2
A4	HYDRAULIC POWER PACK	1150(L)x840(W)x1500(H)	1000	1

 AME ALLIED MARINE AND EQUIPMENT	DATE	SCALE	TITLE
	20.02.2014	1 : 50	SURFACE AIR DIVING SYSTEM LAYOUT PLAN
	DATE	DATE	DATE
OWN	ENGR	APPD	DRAWING NO
BHZ			A3
			0
			TBA