

# SM2 DX300 Saturation Diving System



## DESCRIPTION

Year Built	: 2010
Manufacturer	: Divex Asia Pacific
Classification Society	: Lloyds Register
Compliance Standards	: IMCA D018 & D024 Rev.1
Design Standard	: Lloyds Rules & Regulations for the Construction & Classification of Submersibles & Underwater systems, December 1989
Capacity	: 12 man
Depth Rating	: 300msw
Design Pressure	: 30 bar
Design Temperature	: -18 to +66 deg C

## DIVE CONTROL

Housed within a purpose Built 7m x 3m x 3m insulated with air conditioned container comprising of;

- Dive gas Supply Panel.
- Diver gas reclaim control panel.
- Analox G22 O2 and G30 CO2 monitoring systems.
- Bell Control Systems.
- Bell hot water monitoring system.
- Bell and Diver Video & unscrambler communications systems.
- OTS Through Water Emergency communications systems.
- Bell and Diver audio/ video recording suite.
- Fixed and Portable Breathing Apparatus.
- Equipped with Emergency Lights, Smoke/ Heat Detector & Portable Fire Extinguishers.
- Safe-Ox oxygen monitoring system with audio visual alarm.
- 3 KVA UPS Power Supply Units.

## LIFE SUPPORT CONTROL

Located in a partitioned section within common container as Dive Control and comprising of;

- Gas Distribution Systems.
- Chamber control systems.
- Chamber depth and atmosphere parameters monitoring systems.
- Chamber video and unscrambler communications systems.
- Fixed and Portable Breathing Apparatus.
- Equipped with Emergency Lights, Smoke/ Heat Detectors & Portable Fire Extinguishers.
- 3 KVA UPS Power Supply Units.

## LIFE SUPPORT MACHINERY

Electrical switchboard, transformers and power change over unit.

- 4 x Environmental Control Units Model CMU-2.
- 2 x Divex Divers Hot Water units Model WHE-3.
- 2 x Divex Portable Water Pump Units Model PWS-01.
- Gasmizer Reclaim System with 6 x haskel AGD-4 gas Booster Pumps.
- Haskel AGD-30 Gas Transfer Pump.
- Equipped with Emergency Lights, Smoke/ Heat Detectors & Portable Fire Extinguishers.
- Safe Ox ambient oxygen monitoring system with audio visual alarm.

## 3 MAN DIVING BELL

Bell internal volume : 20m<sup>3</sup>

- 3 Divers 'MARA' Bell Gas Management Panel.
- 2 Diver Gasmizer Bell Reclaim System.
- 2 x Bell CO2 Scrubber model DH-21S.
- Bell/ Diver Communications System.
- OTS Through Water Emergency communications.
- Onboard Emergency Gas Cylinders.
- Bell Emergency Power Battery.
- Internal & External lights.

## SURFACE COMPRESSION CHAMBERS

- DDC 1 - 6 man Living Chamber (ML Volume : 20.7 m<sup>3</sup>)
- DDC 2 - 3 man Living Chamber (Volume : 20.9 m<sup>3</sup>)
- DDC 3 - 3 man Twin Lock Living Chamber (EL Volume : 8.3 m<sup>3</sup>, ML Volume : 12.7 m<sup>3</sup>)
- Medical Locks and Bell clamp with mechanical interlock system.
- Chamber internal outfitted with BIBS, HCU, scrubbers and lighting.
- Supplied with PPO2 meters and lung scrubbers.

## HYPERBARIC RESCUE CHAMBER

- Gantry launch and recovery system.
- HRC internal volume : 16 m<sup>3</sup>
- Gas Distribution Control panel.
- Onboard Emergency Gas Cylinders.
- HRC Emergency Power Battery.
- Chamber internal outfitted with BIBS, HCU, scrubbers and lighting.
- Supplied with PPO2 meters, EPIRB, strobe lights, survival suits, lung scrubbers and food ration.

## LAUNCH & RECOVERY SYSTEM

- Hydraulic A-frame configuration.
- 12T Man Riding Hydraulic Main Winch with 250m non-rotating wire.
- 7.5T Double Reeved Man Riding Hydraulic Clump Weight Winch with 450m non-rotating wire.
- 366m Cortland Fibron Sheated Umbilical with dedicated hydraulic constant tension winch.
- Line out meters at LARS operator and Dive Control Panel.

## DIVERS UMBILICAL & PERSONAL EQUIPMENT

- 2 x 65m Cortland Fibron Working Diver umbilicals.
- 1 x 70m Cortland Fibron Standby Divers umbilicals.
- 2 x Kirby Morgan KM17C helmet with Jewel 601 Reclaim System complete with underwater camera and lights.
- 1 x KM28B Band Mask.
- Single or twin Bail Out cylinders.
- 1st Stage Regulator complete with hoses, contents gauge and pressure relief valve.

## OTHER EQUIPMENT

- 20ft Standard ISO Store container.
- HES Fly-Away Package.
- Cortland Fibron Bell Emergency Umbilical.
- DMAC 15 Rev.3 Medical Kits.

## POWER & SERVICES REQUIREMENT

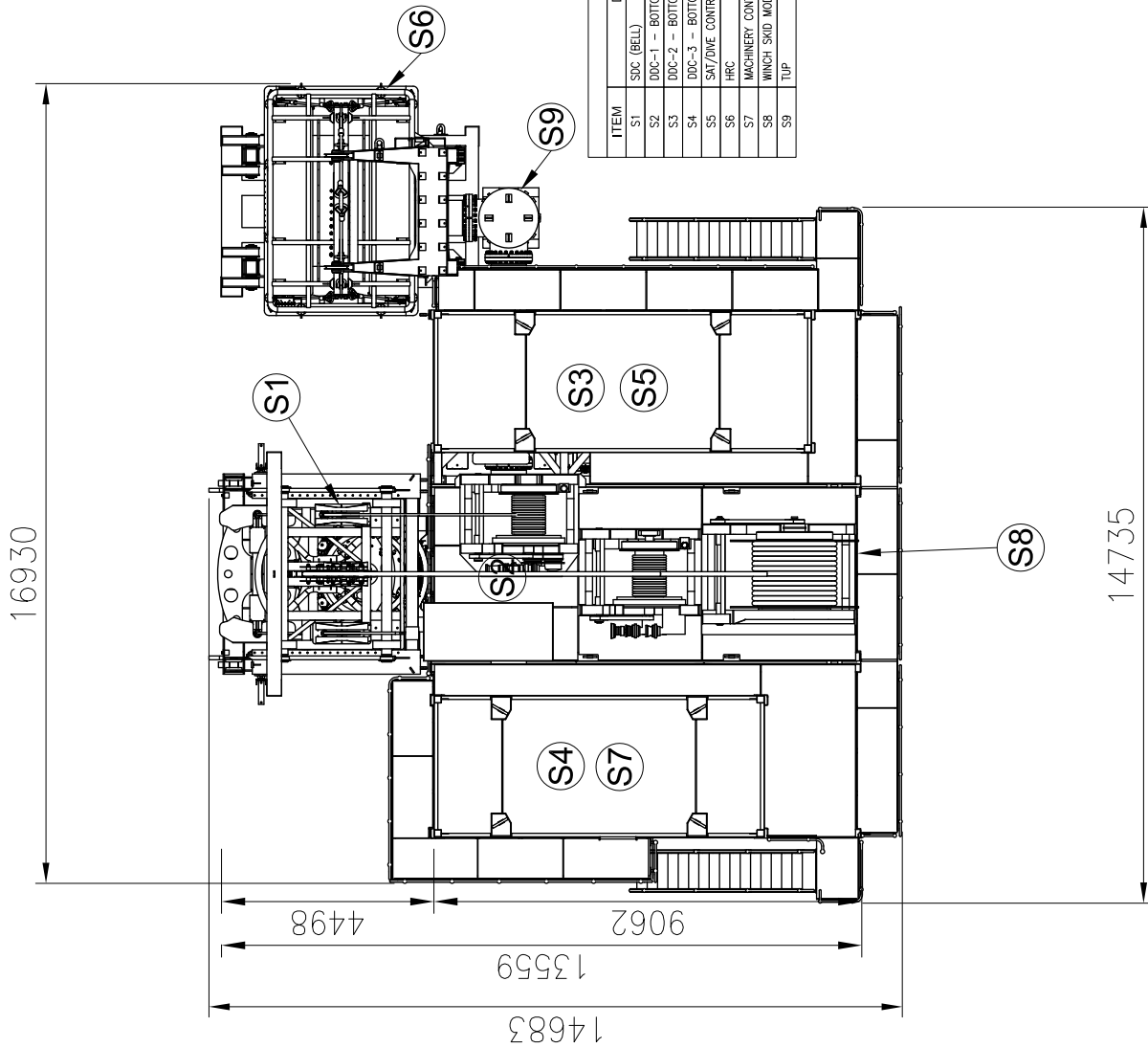
- Portable Water : 26lts per minute
- Sea Water : 196lts per minute
- LP Air : 420CFM @ 7Bar
- Electric Supply Main/ Standby : 440v/3ph/60hz/720amps

## SAPURAKENCANA ALLIED MARINE SDN. BHD.


(Formerly known as Allied Marine & Equipment Sdn Bhd)

No 2, Jalan SBC 10,  
Taman Perindustrian Batu Caves,  
68100 Selangor Darul Ehsan, Malaysia.  
Tel: +603 6196 6800 Fax: +603 6196 6899  
Email : info.ame@sapurakencana.com

# SM2 DX300 SATURATION DIVING SYSTEM



SAT SPREAD(SM2)				
ITEM	DESCRIPTION	DIMENSION	WEIGHT	QUANTITY
S1	SKC (BELL)	2.7(L)x3.3(W)x3.8(H)	9.0 T	1
S2	DDC-1 - BOTTOM	9.6(L)x3.7(W)x3.4(H)	35 T	1
S3	DDC-2 - BOTTOM	9.6(L)x3.7(W)x3.4(H)	32 T	1
S4	DDC-3 - BOTTOM	9.6(L)x3.7(W)x3.4(H)	34 T	1
S5	SAT/DIVE CONTROL CONTAINER - TOP	8.0(L)x3.0(W)x3.0(H)	11.5 T	1
S6	SAT/DIVE CONTROL CONTAINER - BOTTOM	4.9(L)x3.4(W)x3.6(H)	17.8 T	1
S7	MACHINERY CONTAINER - BOTTOM	7.0(L)x3.0(W)x3.0(H)	15.0 T	1
S8	WINCH SKID MODULE	9.1(L)x4.0(W)x3.0(H)	40.0 T	1
S9	TUP	1.5(L)x1.5(W)x3.4(H)	3.3 T	1



**AME**  
ALLIED MARINE  
AND EQUIPMENT

**TITLE**  
SATURATION DIVING  
SYSTEM (SM2)  
LAYOUT PLAN

DATE	SCALE	TITLE
13.03.2014	1:50	
DATE	PAPER/SHEET	REC.
	A3	0
DATE	APPD	DRAWING NO.
		TBA