

SM1 DX300 Saturation Diving System



DESCRIPTION

Year Built	: 2009
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 Detectors & 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 Potable 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: 20m³

- 3 Diver '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 Twin Lock Living Chamber (EL Volume: 20.0 m³, ML Volume: 20.0 m³)
- DDC 2 - 3 man Living Chamber (Volume: 16.0m³)
- DDC 3 - 3 man Twin Lock Living Chamber (EL Volume: 8.3 m³, ML Volume: 12.0 m³)
- 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

- Dedicated HRC hydraulic A-frame deployment and recovery system.
- HRC internal volume: 16m³
- 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 Diver umbilical,
- 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 : 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

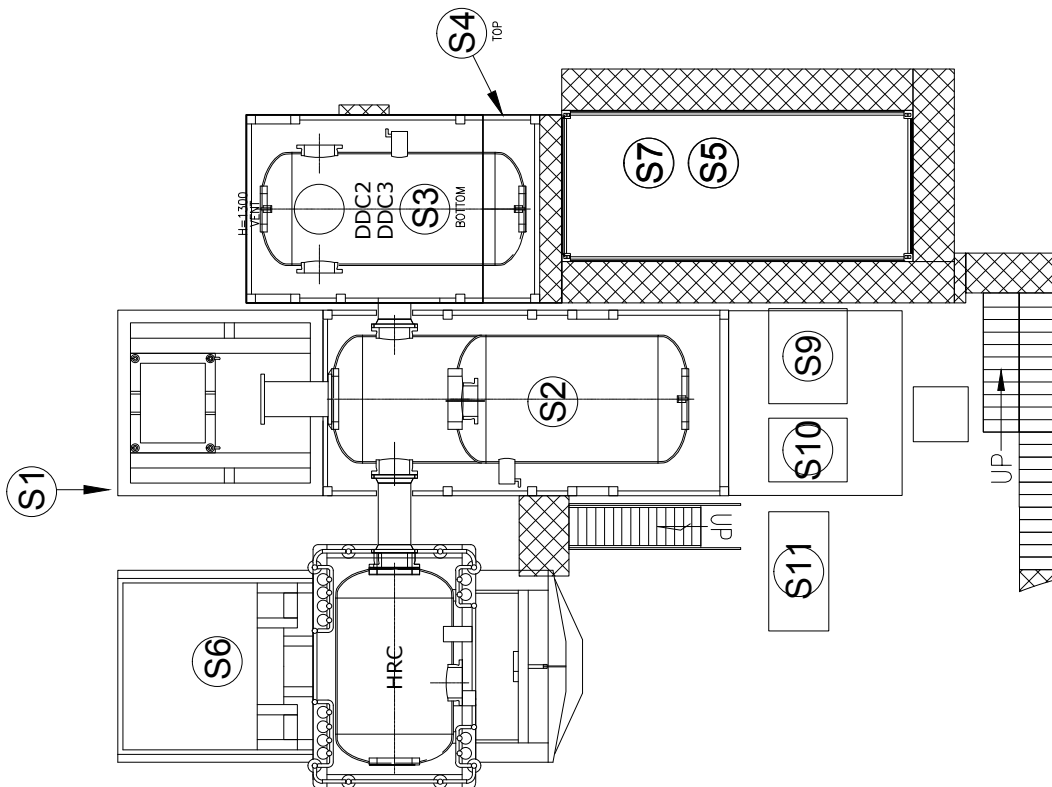
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SM1 DX300 SATURATION DIVING SYSTEM

SAT SPREAD (DIVEX)				
ITEM	DESCRIPTION	DIMENSION	WEIGHT	QUANTITY
S1	SQC (BELL)	3.7(L)x3.3(W)x3.8(H)	10.52 T	1
S2	DDC-1 - BOTTOM	8.7(L)x3.7(W)x3.6(H)	27 T	1
S3	DDC-2 - BOTTOM	5.2(L)x3.7(W)x3.6(H)	24 T	1
S4	DDC-3 - TOP	6.4(L)x3.7(W)x3.6(H)	22 T	1
S5	SAT/DIVE CONTROL VAN - TOP	7.0(L)x3.0(W)x3.0(H)	8.9 T	1
S6	HRC	4.9(L)x3.3(W)x3.5(H)	16.8 T	1
S7	MACHINERY VAN - BOTTOM	7.0(L)x3.0(W)x3.0(H)	14.2 T	2
S9	MAIN HYDRAULIC POWER UNIT	1.9(L)x1.57(W)x2.4(H)	3.9 T	1
S10	STANDBY HYDRAULIC POWER UNIT	1.275(L)x1.57(W)x2.4(H)	2.5 T	1
S11	DIESEL HYDRAULIC POWER UNIT	2.21(L)x1.2(W)x2.3(H)	2.8 T	1



 ALLIED MARINE AND EQUIPMENT	DATE	SCALE	TITLE
	DATE	DATE	DATE
ENGINEER	SCALE	REVISION	
APPD	DATE	DATE	

SATURATION DIVING SYSTEM (SM 1) LAYOUT PLAN