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
2 16 💼	Capacity	: 12 man
	Depth Rating	: 300 msw
	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: 5m³
- 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.

Medical Locks and Bell clamp with mechanical interlock system

SURFACE COMPRESSION CHAMBERS

20.0 m3)

12.0 m)

- Chamber internal outfitted with BIBS, HCU, scrubbers and lighting.
- Supplied with PPO2 meters and lung scrubbers.

DDC 2 - 3 man Living Chamber (Volume: 16.0m3)

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

DDC 1 - 6 man Twin Lock Living Chamber (EL Volume: 20.0 m3, ML Volume:

DDC 3 - 3 man Twin Lock Living Chamber (EL Volume: 8.3 m , ML Volume:

- 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

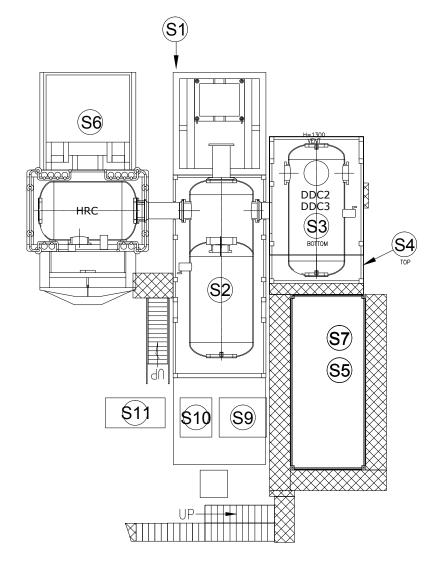
- Hydraulic A-frame configuration. . 12T Man Riding Hydraulic Main Winch with 250m non-rotating wire 7.5T Double Reeved Man Riding Hydraulic Clump Weight Winch with 450m
- non-rotating wire. 366m Cortland Fibron sheated Umbilical with dedicated hydraulic constant
- tension winch. Line out meters at LARS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

OTHER FOUIPMENT

HES Fly-Away Package

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



SAT SPREAD (DIVEX)					
ITEM	DESCRIPTION	DIMENSION	WEIGHT	QUANTIT	
S1	SDC (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	

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