

007-3297-VOGHOS - Air Dive System for Sale

DNV-GL Classed & IMCA D 023 Compliant

▪1 x 20' container: Deck decompression chamber (DDC) and DDC control stand, ▪1 x 20' container: Dive control and gas storage, ▪2 x Diver Launch and Recovery System (LARS).

20' DDC CONTAINER SPECIFICATIONS

1800 Mm Internal Diameter & 4000 Mm Length

Built As Per ASME Code

Chamber Is Divided in Two Compartments: ◦Main-Lock (ML) & ◦Entry-Lock (EL)

Each Lock Is Providing with BIBS Facility

ML Is Provided with One Medical Lock

Primary And Back Up Communication Between the Chamber and Control panel

Each Lock Is Provided with Hyperbaric Light, Internal

Fifi system, ML Is Provided with DH 21 CO2 Scrubber.



Ergonomically designed & fully air-conditioned container occupied with DDC and DDC control panel.

DDC CONTROL PANEL

2 X HP Air Supply To Panel - 2 X BIBS Supply Lines To Panel - ML & EL Connection, 2 X Pressurization, 1 X Exhaust, 1 X Analysis, 1 X Depth, 1 X BIBS Supply - O2 And CO2 Analyzer - Depth Monitoring Of ML & EL - Cross-Over Facility Of The Air Supply To The Chamber.



20' DIVE CONTROL & GAS-STORAGE CONTAINER SPECIFICATIONS

AIR DIVE CONTROL PANEL

Ergonomically Designed 3-Divers Air Dive Control

4 Independent Sources Of Breathing-Air, Pressure Regulator To Reduce The Supply Air pressure
 Displays For Each Diver Camera Gas-Analyser On Each Diver Supply Line Divers Hot-Water Manifold
 Pneumo Gauge For Monitoring The Diver Depth Diver Communication Facility Divers Monitoring
 System 3 X Supply To Diver, 3 X Pneumo Line From Dive.



Ergonomically designed & fully air-conditioned container, occupied with dive control panel, BAUER Verticus 5 HP air compressor, HP air storage.

HP GAS STORAGE;

- Four dedicated and independent banks of breathing air for the Divers: Each bank has four “200 bars – 50 litres HP breathing air” cylinders, - Two dedicated and independent banks of breathing air for the DDC: Each bank has six “200 bars – 50 litres HP breathing air” cylinders.

AIR DIVER LAUNCH AND RECOVERY SYSTEM - TWO INDEPENDENT LARS, EACH EQUIPPED WITH

A-Frame Clump Weight Hydraulic Power Pack and LARS Control Stand, Hydraulic-Driven Man-Riding Main Winch Diver-Stage (Basket) Umbilical Two Independent Power-Supply: 440 VAC, 3-Phases, 60 Hz Hydraulic Driven Man-Riding Guide-Wire Winch.



1062023- Air-009-29092

For Sale: Used 8'x 10' containerised (*Cert DNV2-7-1*) Air Diving Control for 3-Divers.



ISO 8'x10', Certified to DNV2.7-1, Offshore Lifting Container, built in **2018**, had been use for 6-months.

- Complete Security & Weather Sealed when Double Doors are locked up.
- Internal Insulation & Lining on Galvanised Steel Frame - Partition with Door & Aircon - Space for HP Compressor & Umbilical's during shipment - UPS, Lighting & Power-points, Emergency Light, Smoke Detector, Fire Extinguisher, AM Dual Power Supply BA Set c/w Comms.
- Fitout (Optional) - 9-Cylinder HP Air Bank c/w 4 each Regulators - AM Model 3DA (4), 3 Diver Control Panel - 19" Rack c/w 2 each Amron 2-Diver Radio & 3 each Analox 101D2 O2 Analyser - 19" Rach c/w 2 each CCTV Power Control, 2each SD Recorder & 2each 19" LED Monitors.
- OEM Manuals & Documentation, including all relevant IMCA Compliant Testing, Inspections available upon request.

31032023-SAT-010-1; VOGHOS Portable Saturation Diving System

For Sale: Built in 2011, spread has very low running hours since new and has been kept fully in Class with full maintenance records, since 2020 the system has been in DNV layup.



Portable Saturation Diving System built design standard: ASME VIII Division 1 – U Stamp / DNV test/ certification standard: IMCA D 018. This system is rated to 300 msw. Primarily designed to be mobilised in either overside or moonpool launch configuration on a vessel or barge of opportunity.

The complete dive system comprises the following: -

- 3-man 5m³ SDC
- A-frame launch and recovery system
- DDC-1 • DDC-2
- 12-man Oceanwide SPHL including launch davit
- Dive and sat control module
- Machinery container x 2
- SPHL Fly away package
- Emergency generator
- Compressor container.

Components Details: -

Main Skid 15.1 m x 3.9 m x 8.8 m

DDC 1 Level

Diving Bell and Winch Skid at Level 2

Chamber Skid 10.4 m x 4.3 m x 6 m

DDC 2 Level 1

Dive and Sat Control Module at Level 2

SPHL with Davit System 11.8 m x 5.7 m x 7.5 m

Machinery Container #1 5.2 m x 3.2 m x 3.45 m

Machinery Container #2 5.2 m x 3.2 m x 3.45 m

Compressor Container 4 m x 2.4 m x 2.6 m

SPHL Fly Away Package 3 m x 2.4 m x 2.6 m

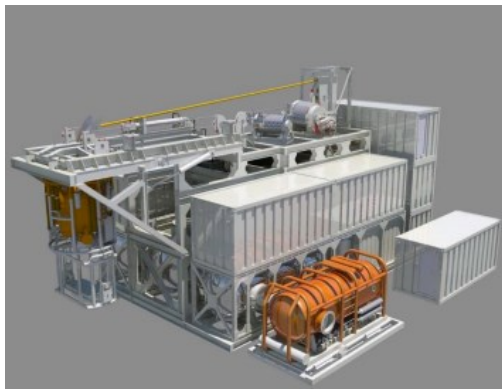
Electric Power 500 kVa 440 v 60 Hz

Emergency Generator 6.3 m x 2.5 m x 3.6

This system sold as is basis.

31032023- SAT-010-1; VOGHOS - Portable 12-man Saturation Diving System

For Sale: DRASS 900 Series, built in 2009 not been used since new, kept fully in class with full maintenance records since purchasing from DRASS, meticulously maintained.



Portable Saturation Diving System, DRASS built design standard: DNV test/ certification standard: This system is rated to 300 msw. Primarily designed to be mobilised in either overside or moonpool launch configuration on a vessel or barge of opportunities.

The complete dive system comprises the following: -

6-Man Chamber: clad,	Twin Lock, 2200mm Inner Diameter, Insulated and SS-clad, on Transport/Installation Skid, Top Flange for Bell Mating
3-Man Chamber: clad,	Twin Lock, 2200mm Inner Diameter, Insulated and SS-clad, on Transport/Installation Skid
3-Man DMAC Chamber: clad,	Twin Lock, 2200mm Inner Diameter, Insulated and SS-clad, on Transport/Installation Skid
3 Diver Diving Bell: Floating (Drop Weight)	5.4 m3, 1900mm Inner Diameter, Bottom Mating,
40' 2.7.1 DNV Certified Container: Handling	Sat Control Room and Dive Control Room + Control
40' 2.7.1 DNV Certified Container:	3 x Chambers ECUs
30' 2.7.1 DNV Certified Container:	Fully Redundant Diver Hot Water Supply (Two machines)
30' 2.7.1 DNV Certified Container: Water Supply	Filling Compressor, Reclaim Buffer Tank and Sanitary
20' 2.7.1 DNV Certified Container:	Gas Management Panels - Distribution and Reduction
20' 2.7.1 DNV Certified Container:	2 Diver Reclaim System
10' 2.7.1 DNV Certified Container:	440/230v Main Switchboard
10' 2.7.1 DNV Certified Container:	440/230v Emergency Switchboard

This system sold as is basis.

31032023-SAT-012-1; VOGHOS-Portable Saturation Diving System

For Sale: Built in 2011 portable saturation diving system, rated 300msw, primarily designed to be easily mobilised, over the side or moonpool launch recovery configuration on a vessel or barge.



For Sale: 12 men spread has low running hours since new and occupies a small footprint and is easily road transport - able. The complete dive system comprises the following: -

The complete dive system comprises the following:

- 3-man SDC
- A-frame launch & recovery system.
- DDC-1 (6man)
- DDC-2 (6 man)
- 12-man HRC including launch davit
- 20ft container, Dive/ Sat control
- 20ft Machinery container
- 10ft HRC reception container.

Components Details: -

Chamber 1	2.3m * 6.914
Chamber 2	2.3m * 6.914
HRC – (12 Man)	2.3m * 3.1m
SDC 3-man Diving Bell	4.5m ³
Machinery Container	Electrical distribution, environmental control, Divex gas reclaim
Support Container	10ft
LARS & Umbilical recovery winch (Lloyd's Design).	

SLSP-CDS-AMG- VOGHOS- 01062023

Containerized Diving System

Consist Of:

A) Container

The dive system in 20 feet (length) x 8 feet (width) x 8.6 feet (height), New Steel Container. The container is ISO / DNV 2.7-1 certified, designed for Cargo/Sea Worthiness, water tight and safe for transportation, and comes with 4 x DNV 2.7-1 Pad-Eyes that are put through MPI & Load Test Certification procedure.



Note: Panel Design may change Subject to prior Notice due to constant Upgrade. Picture is for illustration purposes only.

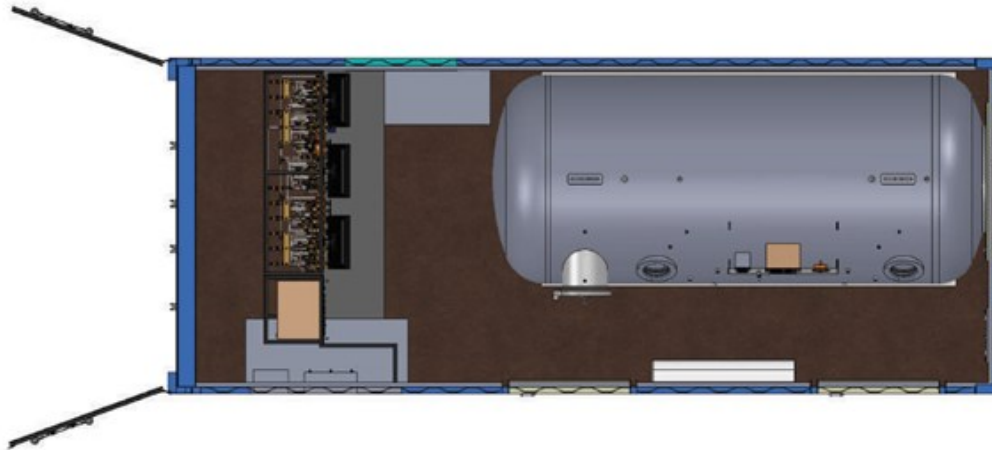
The Container Will Include;

- Internal Heat Insulated container wall and ceiling
- 18000 BTU 230V-50/60 HZ A/C unit
- Lighting weather proof fluorescent light (LED available on request)
- ELCB & MCB board (230 single phase weather proof)
- Weather proof 20AMP isolator
- Smoke Alarms
- (1) Access watertight marine door
- Maine type fixed window (1)
- CO2 Fire extinguisher
- Penetrator Plates
- Supervisor's desk and chair
- O2 Ambient Hi/Low alarm oxygen monitor for ambient air with Hi/Lo alarm
- Surveillance CCTV (LARS) supply separately with cable

- Emergency light (1)
- (1) emergency kick out door

B) Diving Decompression Chamber

Inside the dive control container is a 1500mm Twin lock chamber fully fitted out to comply with IMCA DO18 & D023 Standards



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The 60" (1500mm) Twin lock deck decompression chamber is a pressure vessel designed for human occupancy (PVHO) for operational to a maximum depth of 50 MSW or 5 Bar. There are 2 locks, one for entry lock and the other as the main lock

The chamber is built on a skid with placement slots for additional slots for air bottles, 2 view ports and also a medical lock installed into the side shell of the chamber

The chamber is fitted out with high quality brass, stainless-steel fittings and piping providing the necessary control and instrumentation required to operate the chamber

The chamber is designed to operate via Two PL air inlet sources of air, the chamber locks can be pressurized safely via the chamber external control panel

The panel also provides communication and electrical distribution to the divers in the chamber. Internally the chamber is fitted with bunks and seating for the comfort of the divers during decompression treatment

Dimensions;

- | | |
|--|--|
| <ul style="list-style-type: none"> • Length over all: \pm 3700 mm • Diameter: \pm 1500 mm • Weight: \pm 3200 kg
(in standard lay-out/no optional) • Length of entrance lock: \pm 1000 mm • Length of Main Chamber: \pm 2700 mm | <ul style="list-style-type: none"> • Length of medical lock: \pm 325 mm • Diameter of the medical lock: \pm 238 mm • Viewports diameter: \pm150 mm • Door diameter: \pm 700 mm • Material: boiler steel • Working pressure is 5 Bar = 50 M of Seawater |
|--|--|

Test pressure is in Compliance with PED 97 - 23/EC + EN 13445 & IMCA D023

The Main Chamber can be used for 2 patients laying down on the stretcher, or 3 patients in a sitting position, and in an emergency situation the entrance lock also can be used as a treatment chamber

Further the decompression chamber is completed with the following items:

- 1 x Foldable seat in the entrance lock
- 2 x Foldable Bunk in the Main Chamber
- 2 x Viewports (1 x in the entrance lock, and 1 x in the Main Chamber)
- 1 x Medical lock, placed on the main chamber, complete with interlock system, (the outer door is machined of stainless steel, and has a one hand operation, and integrated interlock system)
- 2 x Lifting eyes on the top of the DDC
- 1 x Skid foundation frame, on which the chamber is placed, between the supports of this frame, the HP air bottles can be stored
- 1 x Operating / Control panel, mounted on the side of the chamber
- 1 x lot Thru Hull penetrators ports

Internal Chamber Fit Out:

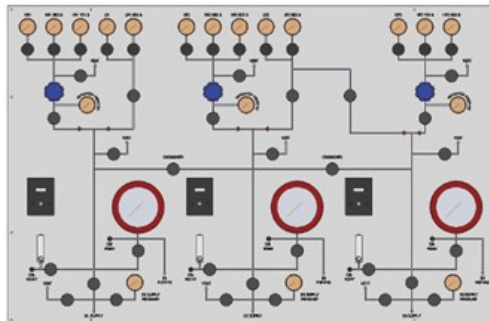
- 6 x Oxygen BIBS
- 2 x Internal Chamber Light
- 1 x Hyperbaric Fire Extinguisher
- 2 x Fire Resistant Mattresses
- 2 x Sound Powered Phone
- 2 x 2-way Comms System
- 1 x Caisson Gauge

External Chamber Fit Out:

- 2 x 6" Pneumo Gauge (0 - 76 MSW / 0 -250 FSW)
- 1 x 4 1/2" Therapeutic Gauge (0 - 21 MSW / 0 - 76 FSW)
- 1 x Oxygen Analyser with Sample Lines
- 1 x Carbon Dioxide Analyser with Sample Lines
- 1 x Flowmeter
- 3 x Calibration Port for Depth Gauge
- 1 x BA Supply Connection
- 3 x LP 2 1/2" Pressure Gauge
- 1 x Oxygen 2 1/2" Pressure Gauge
- 1 x Twin Lock Chamber Communicator
- 1 x Sound Powered Phone
- 1 x BA Set with Communications
- 2 x Chamber Pressure Relief Valve
- 2 x Low Smoke Electrical Penetrators
- 1 x Uninterrupted Power Supply (UPS)

C) Dive control area

The dive control area is fully designed to comply with IMCA D018 & D023 standards



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3 Diver Air Control Panel

This panel is designed for 2 working divers at different depth and breathing different gas mixes. The 3rd diver acts as a Stand by Diver. The panel accommodates 3 different diving gases, plus HP air and LP air. A crossover valve is provided in order to allow air / mixed gas to pass from Diver 1 to Diver 2 to Diver 3, if required, and vice versa. The panel is fitted with an oxygen analyzer for each diver. The depth gauges are 0-100 Meters (350 feet). The panel is fitted with HP regulators for the control of both mixed gases and HP air.

3 Diver Mixed Gas Control Panel

This panel is designed for 2 working divers at different depth and breathing different gas mixes. The 3rd diver acts as a Stand by Diver. The panel accommodates 3 different diving gases, plus HP air and LP air. There is also a crossover valve in order to allow air / mixed gas to pass from Diver 1 to Diver 2

to Diver 3, if required and vice versa. The panel is fitted with an oxygen analyzer for each diver. The depth gauges are 0-100 metres (350 feet). The panel is fitted with HP regulators for the control of both mixed gases and HP air.

Dive Control System Includes:

- 1 x 3 Diver Air or Panel
- 2 x LP air supply Back Up for divers
- 1 x Stainless Steel Tubing 3/8" and 1/4"
- 3 x Flow meter
- 3 x 6" Pneumo Gauges (0 - 100 MSW / 0 -350 FSW) for mixed gas
- 3 x Oxygen Analyzers
- 1 x Ambient Oxygen Analyzer (for mixed gas)
- 1 x BA Mask with Communications Set
- 2 x 3 Diver Unscrambler Mixed gas
- 2 x 3 Radio standard
- 1 x DP Alarm Status Panel
- 1 x Diver CCTV Controller for 3 cameras, 3 lights with 3 Monitors and Recording
- 1 x Uninterrupted Power Supply (UPS)
- 1 x Master Intercom Unit

Standard Connections are as follows:

- Inlets: HP 1/4" JIC Male, LP 1/2" JIC Male
- Outlets: Divers Supply 1/2" JIC Male, Divers Pneumo 1/4" JIC Male
- Oxygen Inlet: Regulated HP 1/2" JIC Male,
- BA Set Supply: 1/4" Quick Disconnect Coupler

**Air storage and management container
(Optional Add-on)**

The Air storage and management system is delivered in 10 feet (length) x 8 feet (width) x 8.6 feet (height), New Steel Container. The container is ISO / DNV 2.7-1 certified, designed for Cargo/Sea Worthiness, water tight and safe for transportation, and comes with 4 x DNV 2.7-1 Pad-Eyes that are put through MPI & Load Test Certification procedure.



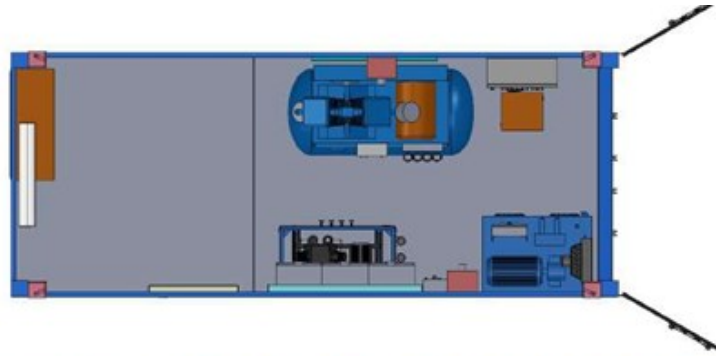
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The container fit includes:

- Weather Proof Lighting (LED light available on request) Emergency Lighting
- Ventilation Fan
- Penetrators for Supply & Intake Pipework Fireproof Neoprene Flooring
- 26 Units Of (200BAR) 50 Litres HP Breathing Air Cylinders 04 Units Of (200BAR) 50 Litres Medical Oxygen Cylinders
- Wall Mounted HP Air, LP Air Supply & Charging Management Panel Medical Oxygen Management Panel
- Slave Intercom (Optional).

Machinery Container

The machinery system is delivered in 20 feet (length) x 8 feet (width) x 8.6 feet (height), New Steel Container. The container is ISO or DNV 2.7-1 Certified, designed for Cargo/ Sea Worthiness, watertight and safe for transportation, and comes with 4 x DNV 2.7-1 Pad-Eyes that are put through MPI & Load Test Certification Procedure.



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The container fit out includes

- Heat Insulated Walls and Ceilings for Workshop
- Area 9000 BTU 230V-50/60hz
- Aircon unit for workshop area
- 2 x Lighting and Emergency Lighting Watertight Marine Door for Workshop
- 1 x Quincy LP Compressor c/w 120 Gallon ASME receiver tank and filtration system
- Model 5120 LVD with unloader, Auto Cut In and Cut Out & Soft start starting panel
- 415/460V 50/60HZ soft start 3-Phase with Air Cooler
- Hankinson HF Series 3-Stage Air Filter System
- Desiccant Drier
- 2 x HP Compressor c/w filtration system each unit Mounted over each other on marine coated Aluminum Frame, 440V 7.5HP 50/60HZ 3-Phase 10.8 SCFM 3000PSI Manual Drain, Tri-Chem Breathing Air Purification System & Emergency Stop
- Hydraulic Power Pack 30HP Motor 440V/3-Phase 50/60HZ Flow 15GPM at

2800PSI with Flow/Pressure Control

- 4" Bench Vice.

Diver Launch & Recovery

The 2 Diver launch & recovery systems are designed to give a compact Solution to the many standard Diver launch and recovery systems that is offered in the market. This LARS saves deck space onboard a vessel and ensure that clients can save on shipping & mobilization costs.

The upgraded configuration offered in this specification is discussed and reviewed as being very practical for a portable launch & recovery system with a 2-diver air basket. For shipping purposes our LARS fold up and fit directly into a standard 20-foot container.



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The technical specifications are broken into the following areas to provide a clearer understanding of the scope of supply.

- Skid base and A-frame
- Man riding winches
- Hydraulic power pack
- Diving basket/cage

Guidance Codes and Standards

- IMCA D023: DESIGN - Diving Equipment Systems Inspection Guidance Note for IMCA
- D018 - Periodical Maintenance of Diving Equipment
- Surface Orientated Diving Systems (Air & Mixed Gas)

Diver Launch & Recovery System Specification

Max Working Depth: 50M
 Diving Capacity: 2 Divers
 Main Winch SWL: 1000Kg
 Main Winch Average Line Speed: 17.5 m/min
 Guide Wire Winch SWL: 650Kg
 Guide Wire Winch Average Line Speed: 33 m/min
 Overall Dimension: 3 460 L x 2 185 W x 2 000 H (Stowed)
 Electrical Power Requirements: 380VAC 3P 50Hz or 440VAC, 3P 60Hz (3P + E)

A-Frame

- Dimensions: 3460 L x 2185 W x 2000 H (Stowed)
- MGW: 4500 kg
- Test Weight: 8000 kg
- Tare Weight: 3800 kg

Main Wire Winch

- Model: SLT 1300/13 Series
- Wire Rope Length: 80m
- Wire Rope Diameter: 13mm
- SWL: 1000 kg

Main Wire Rope

- OD: 13mm
- SWL: 1000kg
- Guide Wire Rope
- OD: 10mm
- SWL: 650kg

Hydraulic Power Pack

- Main Pump Motor: 11KW
- Backup Pump Motor: 5.5KW
- Common Oil reservoir: 200L

Diving Basket

- Dimensions: 1200L x 120W x 2395H
- MGW: 1000kg
- Test Weight: 1500kg
- Tare Weight: 400kg

Guide Wire Winch

- Model: SLT 800/08 Series
- Wire Rope Length: 160m
- Wire Rope Diameter: 10m
- SWL: 650kg

Transportation Lifting Sling

- Description: 16mm 5-Legged Sling
- SWL: 6220kg
- Proof Load Per Leg: 6000kg
- Shackles: 5/8" Bow Shackle
- SWL: 3250kg

Clump Weight

- Dimensions: 1365 L x 215 W x 490 H
- Tare Weight: 300kg

The Launch & Recovery System also includes:

- Communications System on Each LARS
- Portable BA Set with Communications (2)
- (1) 50 Liters' Air Cylinder with First Stage and Second Stage Regulator in each basket

Accessories Pack



Note: Complete System Design may change Subject to prior Notice due to constant Upgrade.

The Complete Diving System Includes:

2 Lengths of 183 meters Umbilical International P/N: UDA0504 Twisted Diving Umbilical
 1 Length of 200 meters Umbilicals International P/N: UDA0504 Twisted Diving Umbilical
 1 x Umbilical rack for 3 Umbilical's
 1 x KMB 18B Diving Band Mask with Hardshell 2 x KMB 37 Diving Helmet
 3 x Diver Hat Mounted Camera with Brackets 3 x Diver Hat Mounted Light with Brackets
 1 lot Interconnect hoses for Machinery to DDC and to Air Management Container comprising as follows:

1 x 30 meters, 1/2" O2 Cleaned Synflex Orange Hose with JIC 8 Fitting
 2 x 30 meters, 1/2" Aquaflex Air Supply Hose with JIC 8 Fitting (for LP Supply from Air Storage/Supply to Dive Panel)
 2 x 30 meters, 3/4" FlexFlow Hose with JIC 12 Fitting (for DDC Blowdown) 3 x 30 meters, 3/8" Synflex HP Hose (Air Storage to control panel)
 3 x 30 meters, 1/4" Synflex HP Charging Hose from Hp Compressor to Air Storage
 3 Sets of Bailout Cylinders 80 cu feet with 1st stage reg. built in relief valve and LP Hose c/w quick connect couplings with locking sleeve together with HP submersible content Gauge with HP hose and Backpack.

1 Lot of Electrical Cables comprising as follows

2 x 20 meters 440v 5 Core Neoprene Power cable with Connector
 3 x 20 meters 220v 3 Core Neoprene Power cable with Connector
 5 x 30 meters Communication Cable (for Intercom System).