

## Air/Mixed Gas Diving System

### DDC VAN



**1 x 20ft air conditioned container housing a 60" Air decompression chamber. The chamber comes standard with its own chamber panel, c/w analyzers. The chamber can be certified by Lloyd's third party.**

## CONTROL VAN





1 x Diver LARS – The Launch And Recovery System comes complete with a 2- diver dive basket c/w air cylinders, 2 x man-riding certified winches (1 x hydraulic winch & 1 x clump winch), 200kg clump weight, built in hydraulic power pack, hydraulic 3-bank spool valve, rams and on-board controls.



**1. 20 ft air conditioned container consisting of 60” DDC with DDC control panel and three diver air dive control panel consisting of:**

- 1 x 60” Deck Decompression Chamber
- 1 x Deck Decompression Chamber Control Panel, c/w UPS System
- 1 x 6” Entry Lock - Pneumo Gauge 0-230fsw/70msw
- 1 x 6” Main Lock - Pneumo Gauge 0-230fsw/70msw
- 1 x 2/1/2” Oxygen Supply Gauge 0-400psi/30 bar
- 1 x 2/1/2” Air Supply no.1 Gauge 0-600psi/40 bar
- 1 x 2/1/2” Air Supply no.2 Gauge 0-600psi/40 bar
- 1 x Chamber comms & back up
- 1 x Oxygen Analyzer
- 1 x Sound Powered Phone on the main lock
- 6 x Scott BIBs Mask (3 x Main and 3 x Entry Lock)
- 1 x Caisson Gauge in Entry Lock
- 2 x Hyperbaric Fire Extinguishers
- 2 x Chamber Lights
- 1 x Over Pressure Relief Valves
  - Dive control will have a plumbed in heavy duty on/off switch for U/W Broco burning – 3 Man gas panel on surface supply, HP & Gas Panel Depth Gauge, 3 O2 analyzers, 3 Tescom Regulators model 44-1313-2081-005. Provision will be made for communications with the LARS from Dive Control.
- The same container will also house the Comms & TV system consisting of:
  - 2 x Amron Unscrambler Model 2830
  - 2 x TV Control System, UTS Model
  - 2 x TV Monitor
  - 2 x DVD Recorder

- 3 x Underwater TV Camera
- 3 x Underwater TV Lights
- 1 x UPS for Comms & TV system
- 1 x BA set
- 1 x Fire extinguisher for container
- Emergency light
- Exit Light

**2. 2 x Unit of LARS** – The Launch & Recovery Systems consists of the following key elements:

- 1 of – The Base skid is constructed from 8" x 4" x 3/8" (200mm x 100mm) carbon steel. Flush mounted galvanized grading deck. A protection frame for hydraulic pipework on rams is present. Pivot points for frame king post and hydraulic power unit. Plinth for mounting winch. Brake panel test kit (27 A Frame). King post (upright) 8" x 4" x 3/8" with cross beam – Sch 160 pipe.

- 1 Set – Hydraulic Powerpack – Electric powerpack with a 30 Hp electric motor
- 1 Set – Hydraulics – Variable piston pump c/w: pressure compensator, 290 liter oil reservoir. Type: Tellus 68
- 2 Sets – Both winches are of KPL 12 type with 130m / 80m of ½" non-rotating wire and counter balance valve
- 1 Ea – The dive basket comes complete with 2 cylinders of air
- 1 Ea – Clump weight
- \*Note\* - The winches are modified with two internal breaks and rested as man-riding winches, and are certified as such by the manufacturer.

**3. 10' x 8' x 8' Equipment shack consisting of:**

- 2 x **Ingersoll Rand type 30 compressor** – 380/440V, 50/60Hz, 200psi, 30 Hp, breaker box with indicating light,

37 Amp, 3 cylinders, 3 stages, air cooled, oil pressure pump, low oil pressure cut-out, loadless start, high pressure cut-out, 3-way discharge manifold, discharge pressure gauge.

- 1 x **Bauer HP Mariner 200E HP compressor**, 200L/min, 225 bar, c/w 4kW, three phase, 400V/60Hz electric motor and standard accessories.
- 1 x 30Hp **standby electric hydraulic power pack** – 250L tank with level indicator,

Oil-filler cap with strainer, Suction strainer, return-line filter, Inspection plate, Danfoss multi displacement pump with variable speed, 30 Hp electric motor, Electric motor and hydraulic pump in line with guard, Relief valve, non-return valve.

1 x **Main supply & emergency electrical power** with changeover switch – Supply in / Ship supply / Generator supply, Changeover switch 185A, Main breaker MCCB 185A, Spare MCB (2) 63A/3P+E, MCB to transformer 63A, MCB for ECU 63A, MCB for A-frame 63A, MCB for hydraulic power pack 50A, MCB for HP compressor 20A, MCB for LP 1 40A, MCB for LP 2 40A, MCB for chamber 30A, MCB for deck light 20A. Panel layout – Ship supply fuses, generator supply fuses, ammeter, voltmeter, ammeter switch, voltmeter switch.

- 1 x transformer
- 3 x Lengths of neutrally buoyant 150m air diver umbilicals c/w air hose, pneumo, camera/communications cable, hat light power cable and hot water hose (Fibron or equivalent).
- 1 x transformer
- 3 x Umbilical Horns
- 1 x KMB 37 Dive Helmet
- 2 x KMB 18B Band Mask