



Description

The system is housed within a custom built 10ft ISO container as a self-contained unit suitable for air and nitrox diving operations up to depths of 50 m.

It is easy to transport, compact and optimized for installation on-board offshore rigs, DSV, barge's or alongside a pier depending on the diving operation demands.

The dive control area is ergonomically designed to modern standards. It is fully air conditioned and contains a comprehensive array of controls, communications and monitoring systems with easy reachable access to enable the diving supervisor to ensure safe diving operations in relative comfort. All this is housed within a robust external shell that can withstand even the most demanding weather conditions.

The dive control section is outfitted on a large bench that houses a Searchwise air/nitrox panel designed for two working divers and a standby diver, with an individual section designated for each diver, fitted with Tescom regulator's, O2 analysis and 0-70 meters depth gauges.

The breathing gas supply systems are independent for each diver and consist of two sections: Primary gas supply from deck storage gas quads, connected with flexible HP hoses to the container penetrator plate and linked with approved design inox pipping to panel HP inlets. The secondary gas supply is configured to support the panel from an integrated gas storage quad placed under the bench. The gas control panel also has an optional LP line for shallow and undemanding diving operations. The panel is fully certified and calibrated. It comes complete with supporting documentation, designed and manufactured in accordance with IMCA D023 Guidelines. Testing and certification are carried out in accordance with IMCA D018.

Entry is via the container main double door where three Stainless-Steel hangers are mounted for safe umbilical storage. Divers' 1 and 2 umbilicals length are 160 meters and for the standby diver is 170 meters.

The umbilicals consist of 3/8 gas hose, 1/4 pneumo hose, comms, video, and light cable. All elements are protected by 2.2mm nominal thickness polyurethane sheath.

There is a 220 Volt electrical supply point suitably rated for service mounted via a bulkhead plug. The container is illuminated with overhead fluorescent lights with emergency backup lighting and 220 Volt double gang sockets located at strategic points. Cabling is fastened on to stainless steel cable trays. The electrical fit out complies with all current standards.

A three diver C-Technics (CCTV & DVR) video and voice communication system is located next to the gas control panel, with recording and viewing facilities via dedicated 21" rack mounted monitors. As standard the system is capable of supplying power to each diver's helmet mounted camera and lamp.

The unit comes complete with a hard disk drive for recording the diver's video and communications and includes video editing software. The units also have room for additional hard drives and have several USB interfaces for transferring video and comms files.

The C-Technics voice communication unit uses modern electronics to give excellent sound quality and allows communication from diver to diver or all divers at once to be selected.

All electronic units are connected in line with uninterrupted AC power (UPS function). In the event of a grid failure, or when shore or generator power is disconnected, the electronic units will continue to operate without disruption as the inverter is automatically activated and takes over the supply to the connected loads.



Surface Supply Air/Nitrox Diving System Features

Capacity: 3 Divers

Diving Gas: Air/Nitrox

Max Depth: 50 metres

Equipment:	Quantity
Primary Gas Source 1 x Deck Gas Storage Quad consists of 12 cylinders mounted inside a protective galvanized crash frame with 4 lifting points and forklift slots. 3 x independent sections of 4 x 50 liters 300 bar cylinders for each diver, arranged to be separate protected from any malfunctions with one common charging point.	1
Secondary Gas Source 1 x Indegrate Gas Storage Quad consists of 6 cylinders mounted inside a protective stainless steel crash frame. 3 x independent sections of 2 x 50 liters 300 bar cylinders for each diver, arranged to be separate protected from any malfunctions with one common charging point.	1
HP Compressor Bauer Mariner 320 (18 m3/h) 220/330 Bar with Diesel Lombardini 24Hp	1
IMCA Complained 3 Diver Mixed Gas Panel (2x In-water;1x surface stand-by diver) up to 50 msw	1
160m Umbilical for Divers 1 & 2	2
170m Umbilical for Standby Diver (air, pneumo, comms, light, camera)	1
Communication unit C-Technics C-Phone 4R	1
CCTV Recording Unit C-Technics C-Vision 4R	1
TV Collor Monitor	3
Kirby Morgan 77 SS Diving Helmet (comms, light, camera)	1
Kirby Morgan 37 SS Diving Helmet (comms, light, camera)	1
Kirby Morgan 28 Band Masks (comms, light, camera)	2
Diver Recovery Harness	3
BUDDY Stab Jacket	3
10 It Bail Out Cylinders (POSEIDON Jetstream first stage)	4
12 It Bail Out Cylinders	2
Divers Recovery System	1
First Aid Kit	1
O ₂ System with pressure reducer and 20Liters O ₂ Cylinder	1
Stretcher	1
Diving Spears Toolbox	1
Mechanical Toolbox	1
Electrical Toolbox	1
Fire Extinguisher 6kg	2
Fire Extinguisher CO ₂	1

Dimensions of 10' ISO Shipping Container

Dimensions & Weight	Feet – Inches & lb	Metric
Height (external)	8' 6"	2.59 m
Width (external)	8'	2.43 m
Length (external)	10'	3.05 m
Size (capacity)	635 cu.ft	18 cu.m
Weight Dry	2755 lb	1250 kg
Weight Fully Loaded (Dive Spread)	8820 lb (Approx.)	4000 kg (Approx.)



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