

AIR DIVE SYSTEM

Our Air Diving System is a fully integrated and IMCA-compliant spread designed to support safe and efficient offshore diving operations. Compact, modular, and built for reliability, the system provides divers with complete life-support, handling, and decompression facilities in line with international class requirements.

The spread includes a 10ft Machinery Container, a Deck Decompression Chamber (DDC), and dual Launch & Recovery Systems (LARS) with diver baskets. Together, these units ensure continuous air supply, safe diver deployment and recovery, and effective decompression support during and after diving operations.

10FT MACHINERY CONTAINER:

Deck Decompression Chambers (DDC):

Launch and Recovery System (LARS):



The 10ft Machinery Container forms the core of IMCA-compliant Deck Decompression Chambers (DDC) are installed onboard vessels and barges and operations. Designed for controlled decompression, diver treatment, and emergency support, they form an essential part of every safe and reliable air diving system.

Each system includes two hydraulic LARS units, one operational and one standby - ensuring safe and uninterrupted diver handling. Built from marine-grade steel with a robust A-frame and secure basket, the twin setup enables deployment and recovery of two divers with umbilicals under offshore conditions. Compact, skid-mounted, and fully hydraulic, the system offers easy vessel integration, redundancy, and enhanced operational safety.

Guidance Codes and Standards

- IMCA D023 - Design - Diving Equipment Systems Inspection Guidance Note.
- IMCA D018 - Periodical Maintenance of Diving Equipment.
- All equipment is built and maintained in accordance with IMCA and international class requirements. Diver deployment and recovery options are available depending on the dive site location, ensuring safe and compliant offshore operations.

Optional Equipments

- Power Pack with underwater tools such as grinder, cutter, and welding set for subsea maintenance and repair.

Core Machineries

- 01 x High Pressure Compressor for sustained diving operations.
- 02 x Low Pressure Compressors to ensure continuous breathing air supply.
- Integrated Gas Quads for backup storage and seamless air delivery.
- 02 x Air Receiver Tanks for pressure stability and uninterrupted supply.

Supply Details

- Electrical Power Supply : 230V (for control) & 440V, 50Hz, 3-Phase (for machinery)
- Connected Load: Approx. 50 kW for compressors and LARS.
- Emergency Standby Power : 200 kVA Diesel Generator. (Optional)

Air Diving System Deck Area Details

- 02 x Air Launch and Recovery Systems (LARS): (L) 3175 x (W) 2010 x (H) 3780 mm , Weight: 4000 kg (Each).
- 01 x Air Dive Control with Deck Decompression Chamber (DDC): (L) 6100 x (W) 2450 x (H) 2600 mm , Weight: 6500 Kg.
- 01 x 10ft Machinery Container: (L) 4120 x (W) 2438 x (H) 2500 mm , Weight : 5000 kg.