

# Air Diving Spread 2 (ADS 02)

TECHNICAL SPECIFICATIONS



The ADS 02 is the latest addition to ES Underwater Solution's air diving system. The containerized modules are designed according to ISO standards and are International Maritime Contractors Association (IMCA) compliant. These containerized modules can be laid out to fit the decks of any diving support vessels.

The ADS 02 comes complete with Divers' Equipment, Dive Control Station, Dive Control Master Panel, High Pressure (HP) & Low Pressure (LP) Compressors, Workshop, Twin Lock Deck Decompression Chamber (DDC) as well as Launch and Recovery System (LARS), where either wet bells or steel cages can be attached.

The LARS consist of a hydraulic 'A' frame deployable either on a vessel side or in front of a vessel's dedicated moon pool.

The Twin Lock Deck Decompression Chamber (DDC) comes in an air-conditioned 20' container.

Divers' equipment includes Kirby Morgan dive hats, umbilical cables, harnesses complete with emergency bail out bottles, communication system, digital video recording system and all other necessary diving and support equipment.



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Class Society : PVHO , PED 97/23/EC + , EN 13445, MOD. G  
 Design Standard : IMCA D023  
 Testing/Certification Std : Annex|3.2.1, 3.2.2

Combined Dive Control & DDC Van A 20 foot air-conditioned containerized container with lighting and power points, complete with Dive Control Station, dive control panel, CCTV, video recorders, divers communication, umbilical and 1516 OD DDC built to ASME SECT/ V111 DIV 1.2007ED ASME PVHO, 2007ED

- Overall Length : 3600mm
- Main Lock Length : 2540mm
- Diameter : 1600mm
- Weight (dry) : 2998kg
- Viewport Diameter : 232mm
- Medical Lock Strength : 450mm
- Medical Lock Diameter : 290mm
- Man Way Diameter : 774mm
- Working Pressure : 880kpa/ 128psi
- DE-OX SUB MULTIGAS gas analyzer
- 3-divers dive panel built to IMCA compliant guidelines supplied with 2 independent air / gases supplies
- 60" Twin Lock DDC
- 2 x KMH Superlite37 B with mounted CCTV system
- 1 x KMB 18 B Superlite
- 3 x 150m each surface supplied diver umbilical cable

Machinery Van An ISO 20 ft container with purposed built 4 corner recessed lighting point at 30 degrees angle complete with hydraulic power pack, air / gas cylinders, air bank, an LP compressor, a HP compressor, gas analyzer, exhaust fans & air filter

- 1 x HP Compressor – Electrically driven with 600 l/min capacity
- 1 x LP Air Diving Compressor – Electrically driven with 250l/min capacity
- 1 x 32 kW HPU
- 12-Cylinder Air Bank

Skid-mounted Launching & Recovery System (LARS) A skid mounted complete with a 2 tonne SWL AFrame, a dive stage, clump weight, hydraulic winch and tool box) constructed to AISC specification.

- 2-divers basket complete with 2 x 47 liters emergency air supply cylinders
- Primary & secondary "RAM" ABS type approve manriding winch
- 30 HP Hydraulic Power Unit
- Clump Weight

Component	Weight (Kg)	Dimension (mm)
Dive Control Van & DDC	8000	6200L x 2500W x 2600H
LARS	5800	3455L x 2185W x 2065H
AMD Air Dryer	500	345L x 445W x 740H
HP Compressor	385	1200L x 770W x 1470H
LP Compressor	359	1000L x 700W x 1125H
LAC2 Air Oil Coolers	20	440L x 249W x 470H
Store Container	5000	6200L x 2500W x 2600H