

ABS CLASSED 1500MM DDC WITH BA QUAD & HP COMPRESSOR



SYNERGY
INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE-UK-INDIA-AZERBAIJAN-SINGAPORE



The Synergy ABS Classed 1500mm Diving Decompression Chamber (DDC) with BA Quad & HP Compressor in 20ft Container is engineered to provide safe, reliable, and fully integrated diving support for offshore and marine operations. Designed and manufactured in compliance with ABS Class requirements and ASME Section VIII, the system ensures maximum safety, durability, and consistent performance in demanding environments.

This containerized unit is equipped with a Breathing Air (BA) Quad cylinder system and a High-Pressure (HP) compressor, ensuring a continuous and dependable air supply for diving and decompression activities. Built within a DNV 2.7-1 certified 20ft container, the system offers enhanced protection, mobility, and full compliance with international offshore standards, along with integrated life-support and control systems for efficient and flexible operations.

DECOMPRESSION CHAMBER:

- 60" chamber with complete internal and external fit-out

COMPLIANCE:

- IMCA D018 & D023 compliant certification package included
- Full Failure Mode and Effects Analysis for complete system (FMEA OPTIONAL)
- Built and tested to ABS marine class certification society

SPECIFICATION:

CONTAINER TYPE:

- 20ft DNV offshore container

DDC AIR MANAGEMENT PANEL:

- 24 cylinders, air management panel, primary HP / secondary regulated LP supply to DDC chamber

HIGH PRESSURE COMPRESSOR:

- BAUER PE550VE HP Compressor for high-pressure breathing air supply, ensuring reliable and continuous charging of air cylinders for DDC operations.

COMMUNICATION SYSTEM:

- Main: AMRON chamber communication
- Backup: Sound powered phone

VIDEO SYSTEM:

- Single CCTV for main lock monitoring for the DDC chamber

BREATHING MASK – CHAMBER OPERATOR:

- Connected to DDC BA supply line

BACKUP:

- 1500VA UPS Provided for chamber

CONTROL PANEL:

- Includes O₂/CO₂ analyzers and ambient atmosphere O₂ analyzer
- Tungum/Brass valves and tubing for medical oxygen use.
- S.S/Brass valves and tubing for pressurization/depressurization of chamber.



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