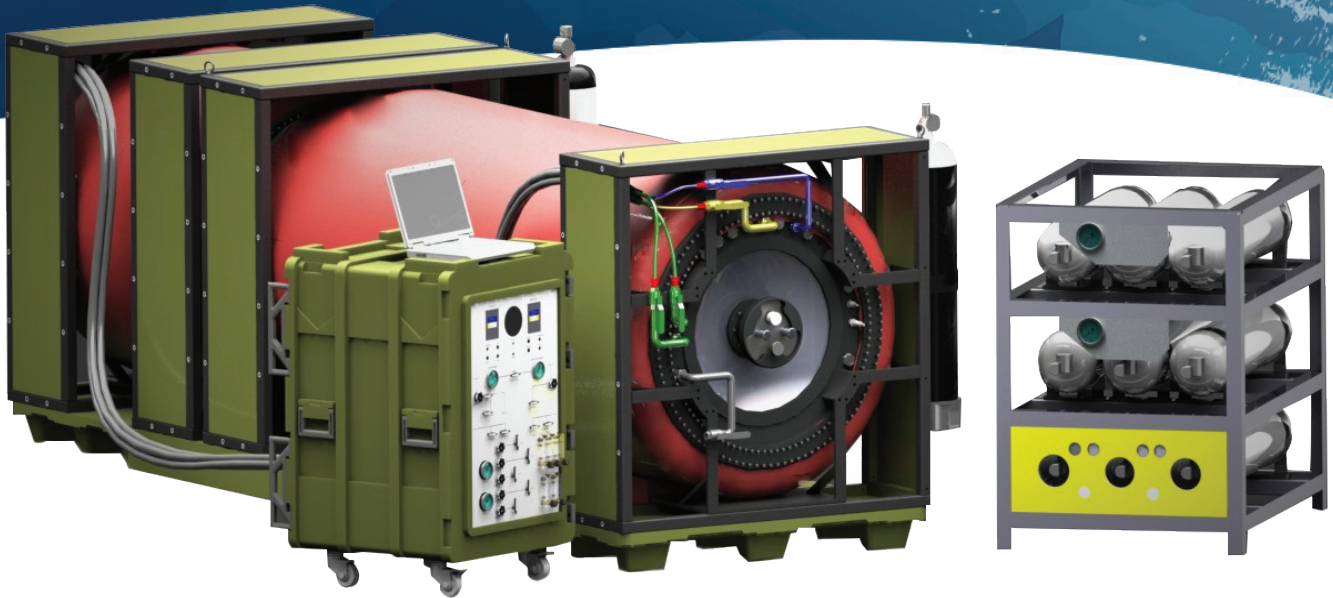


SOS Group of Companies

Delivering Solutions for Survival



HYPERLITE DL5™

Lightweight Double-lock Hyperbaric Chamber

The Hyperlite DL5 is the only ASME PVHO-1 Case 18 compliant, foldable, modular, lightweight double-lock hyperbaric chamber designed for use in challenging military environments, such as military diving operations or submarine escape & rescue.

- ✓ Multiple Occupant, Double-Lock System
- ✓ Suitable for Hands-on Medical Attention
- ✓ Tested for military scenarios, including gunshot
- ✓ Lightweight & Modular for rapid mobilisation
- ✓ Treatment Pressures of Up To 5 Bar/6 ATA



ML: 230 kg*
EL: 187 kg*
Combined: >550 kg*



Main Lock: 1.58m³
Entry Lock: 1.58m³



ASME PVHO-1
Case 18 Compliant



5 Bar(g)
6 ATA



3-4

System Overview

2 x Foldable Modular Chambers

MAWP: 5 Bar
42"/106cm Diameter
ML: 100"/254cm
EL: 40"/100cm.

Interlock

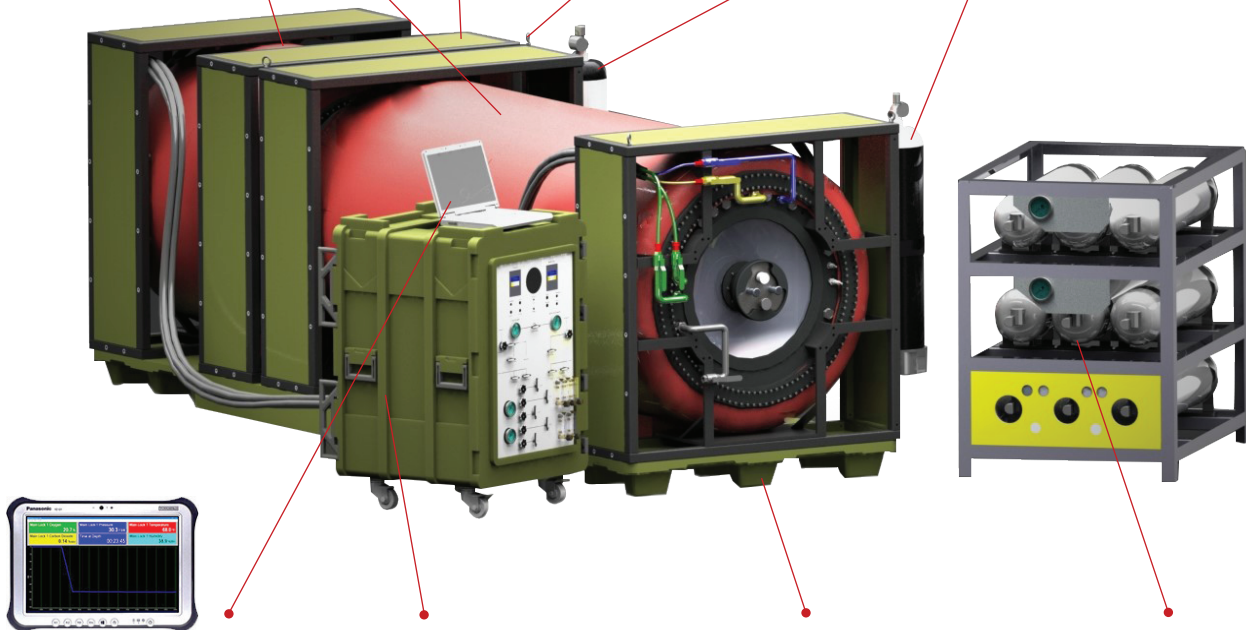
To allow medic to enter the chamber during the treatment.

Lifting Eyes

For overhead lift.

Emergency Gas Bottles

Back up Breathing & Pressurisation Gas Bottles.



CDRS System

Real time data which displaying Pressure/Time graph, O2, CO2, Temperature and Humidity levels with built-in alarms.

Vertical Mounted Control Panel

The Control Panel provides front-mounted chamber & breathing gas controls plus combined chamber monitoring in two stacked modules, in a single case. Hoses are inserted through the panel at the back of the Control Panel.

Palletised Feet

For pallet truck or fork-lift.

Modular Gas Storage System

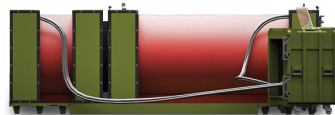
Stacked in banks of 3 or 4, the gas storage systems provide pressurisation and breathing gas to the chamber. Each bank is separable to allow for human lift.

Key Features



Modular Construction

The Hyperlite DL5 is designed to facilitate rapid transportation and assembly to manage hyperbaric emergencies on scene and without delay. The system is capable of parachute or helicopter delivery.



Dual Compartment

The Hyperlite DL5 is a dual compartment chamber – a 2.5/3 metre Main Lock for patient treatments and an Entry Lock, to allow medical personnel to enter and exit the chamber during operation.



Patient Monitoring System

Real-time monitoring of patient vital signs for pre-treatment assessment including Blood Pressure, Pulse Oximetry, Temperature, Peak Flow and Blood Glucose.



Treatment Case

We supply Treatment cases packed with essentials for application during a treatment. Includes scrubs, hyperbaric blanket, scissors, portable urinals, rehydration packages, drinking reservoir.

6 Reasons To Choose

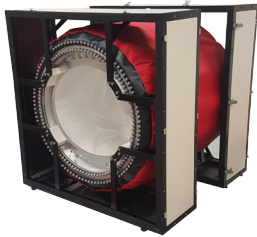
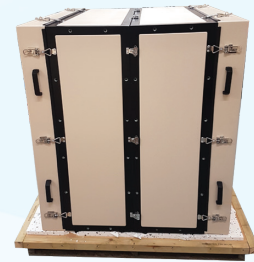
HYPERLITE™

1

WEIGHT

The world's lightest multiple occupant hyperbaric chamber

The DL5 utilises the SOS Group patented lightweight pressure vessel technology, reducing weight when compared to traditional transportable hyperbaric chambers. This benefits the end user by making the system light enough for to transport by pallet truck, crane or (with certain models) multiple-person human lift capability.



2

PACKAGED SIZE

Foldable tube with small packaged volume

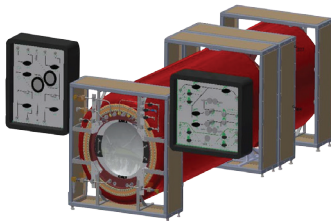
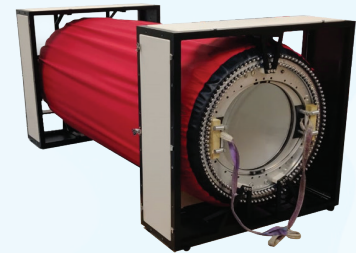
The small packaged volume and smart design of the Hyperlite DL5 Case is intended to provide the end-user with multiple options for mobilisation through base lift – through base lift, overhead lift or using a wheeled option. The external frame support, termed the exoskeleton, allows for multiple fixture and fitting options to be added, making the case highly versatile for additional subsystems and transport options.

3

CERTIFICATIONS

Global certifications & the most extensive testing

Our multiplace chamber systems have completed a rigorous prototype test program, witnessed by Lloyds Register and in compliance with ASME PVHO Case 18. In addition, at the request of a military customer, the Hyperlite DL5 underwent a damage tolerance test with one (1) .762 FMJ fired from an M16 assault rifle. This demonstrated that the Hyperlite DL5 is inherently safe even in austere environments.



4

OPERATIONAL CAPABILITIES

High pressure and highly durable

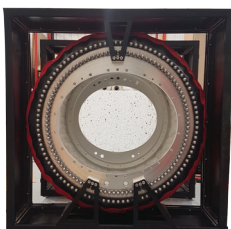
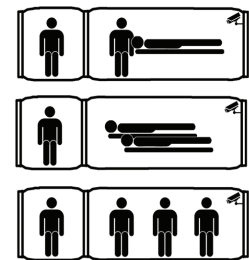
The Hyperlite DL5 pressure vessels exceeded all previous known pressure limits for textile hyperbaric chambers anywhere in the world. Our maximum prototype pressure test reached an impressive 246 msw (24.6 Barg / 25.6 ATA) without failure, allowing the system to be rated up to 50 msw (5 Bar/6 ATA). These pressures allow the the system to be operated using some mixed gas dive tables.

5

OCCUPANTS

Multi occupant double-lock providing hand-on medical care

The DL5 System is equipped with a large Main Lock (appr. 250cm) and a smaller Entry Lock (appr. 100cm) providing ample room inside the chamber for multiple patients or for a patient and a tender to provide hands-on medical attention. The Entry Lock allows for a patient to move in and out of the Main Lock during a treatment.



6

THROUGH LIFE SUPPORT

Supporting you for the long-term

At SOS Group, we are committed to supporting you from initial enquiry all the way to end of product life cycle. We provide you with training, servicing and support throughout. We are the only hyperbaric chamber manufacturer able to offer all calibrated components delivered to you, keeping you operational 365 days a year.

Technical Specifications

Exact specification can be altered to customer preference

| Description | Imperial | Metric |
|----------------------------------|----------------------|-----------------------|
| Main Lock (ML) Length | 100 in.* | 254 cm* |
| ML Diameter | 42 in. | 107 cm |
| ML Pressure Vessel Volume | 80 ft ³ * | 24.4 m ³ * |
| Entry Lock (EL) Length | 40" | 100cm |
| EL Diameter | 42 in. | 107 cm |
| EL Pressure Vessel Volume | 94 ft.3 | 2,662 litres |
| Window Thickness | 1.7 in. | 4.31 cm |
| Bladder Thickness | 22.19 in. | 56.36 cm |
| Max. Allowable Working Pressure | 165 fsw | 50 msw |
| Production Test Pressure | 248 fsw | 76 msw |
| Prototype Test Pressure Achieved | 809 fsw | 246 msw |

| CASES | VOLUME | DIMS IN INCHES | DIMS IN CM | WEIGHT LB | WEIGHT KG |
|------------|--------|-----------------|-----------------|-----------|-----------|
| MAIN LOCK | 1.58m | 297 x 264 x 330 | 117 x 104 x 130 | 506* | 230* |
| ENTRY LOCK | 1.58m | 297 x 264 x 330 | 117 x 104 x 130 | 469* | 213* |

Control box and ancillary cases are variable based on required specification

DESIGN CODES & STANDARDS

| | |
|-----------------------------|--|
| DESIGN CODES | ASME PVHO-1 (2012) & Case 18 |
| TEST WITNESSING | LLOYD'S REGISTER |
| QUALITY ASSURANCE ASSESSORS | SGS UK LTD SYSTEMS & SERVICES CERTIFICATION ISO 13485:2016 |

PROTOTYPE TESTING

| | |
|------------------------------|---|
| OVERPRESSURE TEST | 10 x PVHOs at 360 psi for 30 minutes @ 38°C |
| EXTENDED DURATION CREEP TEST | 10 x PVHOs at 300 psi for 300 hours @ 38°C |
| CYCLIC PRESSURE TEST | 4000 CYCLES - 0 to 80 psi |
| CYCLIC FOLDING TEST | 1100 CYCLES |
| COLD STORAGE TEST | 2 x PVHOs @ - 18° C |
| DAMAGE TOLERANCE TESTING | Controlled depressurisation after .762 round from 91 meters |



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Head Office
SOS Group GBR Ltd
71-75 Shelton Street, London, UK
WC2H 9JQ

UK +44 (0) 845 263 8155
SG +65 6909 3758
PH +63 905 348 9870
 info@sosgroup.co

www.sosgroup.co