

Deck Decompression Chamber

Unit 9 | DDC

General description

The insulated 20ft DNV 2.7-1/ISO 10855-3 container contains a Deck Decompression Chamber (DDC) with a diameter of 1800 mm, air-conditioning, heater, light and emergency light and all the necessary air/oxygen supplies and controls. The decompression chamber has been built in accordance with manufacturers drawings which are in compliance with applicable Lloyd's Register Rules and Regulations and in accordance with the guidelines as applicable in the IMCA D 023 section 3 and 12 and tested and maintained according to the applicable sections in the IMCA D 018.

Main data

Length	6100 mm
Width	2440 mm
Height	2600 mm
Weight	10000 Kg
Power requirements	440/440V 50/60 Hz 6 KVA

Deck Decompression Chamber

Type	Twin lock
Diameter	1800 mm
Length	3600 mm
Maximum depth	50 msw
CE-marking	CE0036 (complete unit 9)
Notified Body (CE)	TÜV Industry Service GmbH
Pressure vessel	PED 2014/68/EU + EN 13445:2014
Windows	ASME PVHO-1-2016 Annually witness test
Notified body	Lloyd's Register



Air/oxygen supply

The container contains sufficient air to use the decompression chamber in accordance the IMCA guideline D050.

- It is equipped with 7x 80 litre @ 200 bar air cylinders and 2 sets of 6x 50 litre @ 200 bar air cylinders.
- The DDC has 4 BIB's connections in the main chamber and three in the entrance lock.
- The container has an externally build in storage for 2x 50 litre oxygen cylinders and a on the control panel switchable main and back-up oxygen to BIB's supply.
- Double isolated air to BIB's for emergency use is installed.
- Connections available for external air and oxygen supply.



Communication

Two-ways communication system will provide communication between the main lock and the supervisor and/or between entrance lock and the supervisor including back-up.



Additional data

The DDC is equipped with oxygen and CO₂ analysers, temperature, humidity read out, depth-/time logger and camera with black-box recorder on both compartments.

The Deck Decompression Chamber is manufactured by Hytech-Pommec B.V., The Netherlands.