Deck decompression chamber

Ordering information*
DDC 1600, 50 msw
DDC 1800, 50 msw
*Other dimensions/types available upon request

The IHC Hytech built deck decompression chambers (DDC) are generally considered among the best available today. At IHC Hytech, decompression chambers are not designed on the drawingboard, but in the field. Divers among divers, mixing seasoned experience from way back with the fresh points of view from today. We feel decompression chambers should be instantly simple to operate, to avoid possible errors or losing precious time Additional IHC Hytech offers annual maintenance contracts, a tailored installation and equipment training.

Safety and regulations
All decompression chambers are custom-made, according to your specifications, to fit your applications precisely. We have standard tanks, but we are by no means stuck to one model. Safety and reliability are of course important features of each chamber built by IHC Hytech. The pressure vessel (including the medical lock) is designed and built in compliance with the PED 97 / 23 / EG + EN 13445 / module G and this is to be certified by TÜV. We can build our decompression chambers according to any standard you choose: e.g. Lloyd's Register, British Standard, IMCA, D.N.V., ABS, EM13445. A decompression chamber that fully complies with IMCA regulations can be delivered without extra manufacturing time.

Layout
A standard decompression chamber comes with two compartments, the main chamber and an entrance lock. The chamber is skid-mounted and has large lifting lugs for increased mobility. The tank will go wherever the diving action is.

Both the inside and the outside of the chambers are coated with a special coating. Working pressure is usually 50 msw., 5,2 bars (80 psi), but chambers up to 35 bars (515 psi) can also be provided.

For integration in existing systems, the chambers can be supplied with connection flanges to fit auxiliary chambers, like a DART. The skid can be used to integrate the oxygen and air cylinders required to provide a maximum operational independence.

The pressure hull has a number of spare penetrators that allow additional systems to be installed. A large size medical lock is a standard feature. View ports with a diameter of 150 mm. allow observation of both compartments.

V-F

Standard scope of supply
IHC Hytech DDCs are built for fast action. The pressurisation system is over-dimensioned for structural performance and better flow. The pressure system starts at the compact IHC Hytech high LP regulator, that allows very short time to pressurise, well within any accepted standard.

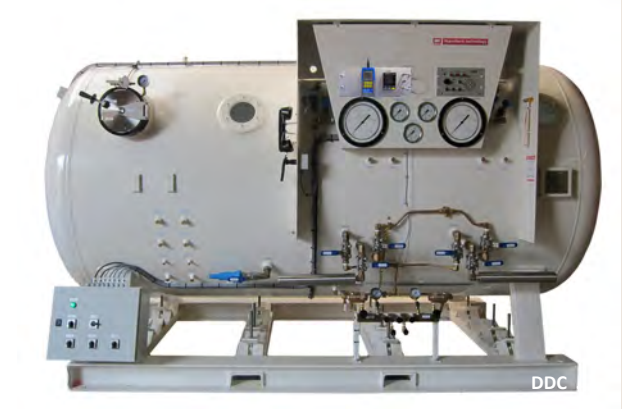
This well-priced basic-level DDC offers fantastic value. Its comprehensive standard scope of supply assures that it can be operated comfortably and safely. Moreover, the DDC is easy to control and to maintain.

The main chamber is accessible trough the entrance lock. Both have large diameter double hinged doors (Ø700 mm). All compartments have flat floor-boards. The in-and outgoing lines are protected by safety skin valves.

The pressurisation system is provided with adequate silencers to reduce noise to an acceptable level. The air dump system has been constructed in such a way that it can not be accidentally blocked by hands, clothes etc.

An oxygen supply is available in both the main chamber and the entrance lock. Both compartments have a BIBS system, using overboard-dump masks. This means the exhaled oxygen is discharged outside the tank, to prevent a high oxygen level inside the chamber.

Our standard DDC contains:
- foldable stretchers and foldable seat
- viewports
- medical lock
- skid foundation frame
- BIBS (built-in-breathing-system) in the main chamber and entrance lock
- control panel mounted on the longitudinal side of the DDC
- floor covering plates
- lifting eyes
- IHC Hytech communication system
- speaker/microphone
- spare penetrators
- double hinged doors


DDC


Medical lock


Foldable seat with optional heating


BIBS

Optional scope of supply

Several options are available to further enhance the system. A DDC that complies with IMCA regulations can be delivered without extra manufacturing time. Many of these options are mandatory then. Ask IHC Hytech for more information about these regulations.

- Compliance with notified body (class or certified)
- Standard 20 ft. ISO norm container
- BIBS masks
- Secondary means of communication
- Internal LED lighting system
- Electrical heating system
- Chamber firefighting system
- O_2 and CO_2 analysis in DDC
- Pressure indication/gauge withing the chamber
- Fire retardant bedding
- HP air bank
- Emergency breathing apparatus for the operator
- O_2 analysis for operator
- UPS/back-up battery
- First aid kit
- Control panel mounted on dished end
- Cooling system for main chamber
- CO_2 scrubber
- O_2 make-up system
- Flowmeter
- Connection flange
- Data monitoring and recording
- Camera observation system
- HP and LP compressor
- Digital countdown timers

We can modify the container as well. See the options below:

- Oxygen storage compartment
- Additional entrances
- Seperarion wall
- Cast floor
- Window in the container
- Container heating system
- Insulation of the container
- Air conditioning
- Additional pad eyes
- Container water deluge system
- DNV 2.7-1 container/EN12079
- Paint system
- 3 diver control panel with communication

Containerised DDC with extra door and storage compartment

Control panel on dished end with equipment

Camera and caisson indicator

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