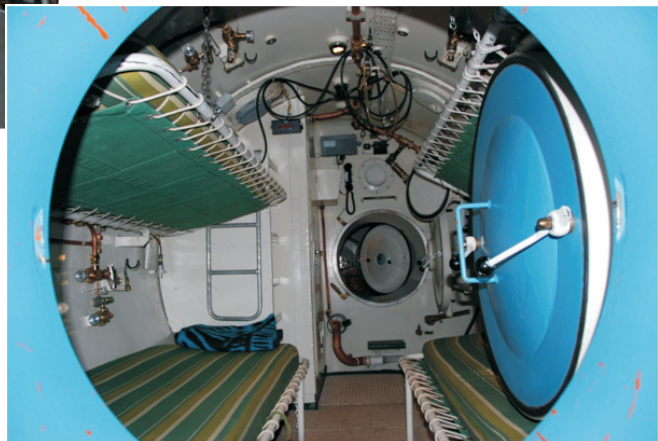


A Concept of HYMED-OXY Hyperbaric Chamber for Medical Treatment



Assignment

Chamber is designed for a Hyperbaric Oxygen Therapy medical treatment (breathing in oxygen from the inhalers in the atmosphere of increased pressure).

Basic properties

- treatment through breathing in oxygen from the inhalers in the atmosphere of increased pressure in the chamber
- number of persons undergoing simultaneous treatment: 8 ÷ 10 sitting and 1 lying
- possibility of securing treatment inside the chamber by medical staff (1 person)
- possibility of treatment of a sick in lying position (brought in on stretcher)
- possibility of observation of the chamber's interior – directly or by means of technical devices
- easy access to chamber for patients undergoing treatment (rectangular manhole on a floor level)

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Design of chamber

The chamber is available in 2 versions:

- stationary - to be installed in a hospital room
- mobile - to be set up at a site and secured against external atmospheric conditions

In both cases, an appropriate infrastructure must be available in order to secure work of the chamber, most important elements of which are:

- reserve bank of compressed air for breathing
- reserve bank of medical oxygen
- power supply of required output (380 V, 50 Hz or 440 V, 60 Hz)
- sufficient space around the chamber for operation and maintenance
- social and sanitary back-up for the persons undergoing treatment and for the chamber operation staff

The above mentioned infrastructure is not the subject of the proposal for this chamber, nor is it an offer for designing and construction of the chamber.

Technical parameters of the chamber

- working pressure 1 Mpa
- internal diameter 2 200 ÷ 2 300 mm
- access manhole, rectangular 1 700 mm, 700 ÷ 800 mm
- number of observation portholes 10 ÷ 12
- length of chamber (depending on number of stands) 6 600 mm
- material steel/stainless steel
- number of pressure passages in chamber housing ~25 nos

Chamber housing

Principal part of the housing - cylindrical.

2 bottoms of small height ("flat" to maximum possible extent), one of them with access manhole.

Access manhole – rectangular, with cover, porthole, locks and seals.

Sight-glass illuminators, circular, of opening diameter ID = 150 mm, 10 ÷ 12 Nos.

About 25 pressure passages in shell of various diameters and screw thread depending on equipment for gas and electrical systems.

Foundation legs for stationary chamber or skids for mobile chamber.

Chamber lifting grips.

Basic equipment

- 10 seats
- 1 foldable berth
- 12 inhaler units
- air installation – supply of air to chamber
- oxygen installation – supply of oxygen to inhaler units
- technical observation 2 – 3 TV cameras
- measuring system for monitoring chamber atmosphere (O²) and CO² analyses, pressure, temperature
- inner lighting
- communication system
- fire fighting equipment (extinguishers)
- internal heating (electric heaters)
- external panel for chamber control