

NORMOBARIC CHAMBERS

konstal
GRUPA

CE With CE certificate
Registered design

The normobaric chamber is a specialized, certified device intended for recreation and providing regenerative sessions with exposure for increased oxygen partial pressure, which are an excellent complement to beauty & SPA treatments.

By fully automated system, normobaric chambers are designed to provide the precise atmosphere's parameters, modified in relation to Earth's atmosphere. These parameters - accordingly to scientific research - can contribute for faster regeneration of the human body and provide extended youth.



FOR WHOM?

For entrepreneurs with intention to expand a spectrum of their company with services providing recreation and regeneration of the human organism. This venture allows to operate in highly prospective market with excellent development potential.

For individuals with intention to invest in health and immunity, reaching for modernized solution using the latest scientific and technological achievements.



STANDARD SPECIFICATION OF A NORMOBARIC CHAMBER

- Control panels with displays presenting internal parameters. Panels enable to perform compression and decompression in pressure lock
- Air conditioning
- Redox water dispenser - water saturated with active hydrogen
- Audio equipment (i.a. speakers, TV)
- Overhead lights
- Manually reclining chairs with cups holders (RELAX section) and automatically reclining chairs with massage function, cooling cup holders, possibility for charging a phone or computer, a lamp and movable top (VIP section)
- Internal doors between rooms in a chamber (i.a. to toilet)
- Comprehensively equipped toilet inside with an automatic sewage discharge system
- Walls with graphic print
- White ceiling
- High-quality, certified vinyl floor with high resistance to abrasion and dirt



PERSONALIZATION OF FINISHING ELEMENTS OF A CHAMBER

- Chamber's type selection - standard (cylindrical; engine room in separate building/room) or container solution (engine room and chamber in container)
- Capacity selection: in case of commercial use - accordingly to „Types of normobaric chambers”, in case of individual use - for 4 or 6 people
- Selection of an exterior door location
- Selection of a wall graphic print
- Selection of a type and colour of chairs
- Selection of chair number in particular sections
- Selection of vinyl floor colour
- Optional - installation of additional equipment and adjusting interior design e.g. as a bedroom
- Optional - decontaminators - used for air purification inside of a chamber



Exemplary cross-section of a normobaric chamber



BASIC TECHNICAL INFORMATION ABOUT A NORMOBARIC CHAMBER

- Steel tank perched on two feet
- Insulated and covered with aluzinc plate
- Internally and externally protected with anti-corrosion coating
- Supporting structure for walls, ceiling and floor
- Windows adjusted to work in higher pressure
- Tank is equipped with external doors and internal doors
- A device is equipped with the system that maintains precise atmosphere's parameters inside
- Requirements for installation: hardened ground for foundations, electricity 21 kW, Ø20 water connection, minimum pressure 3.5 bar, Ø110 sewage system



QUALITY AND SAFETY MARKED WITH CE



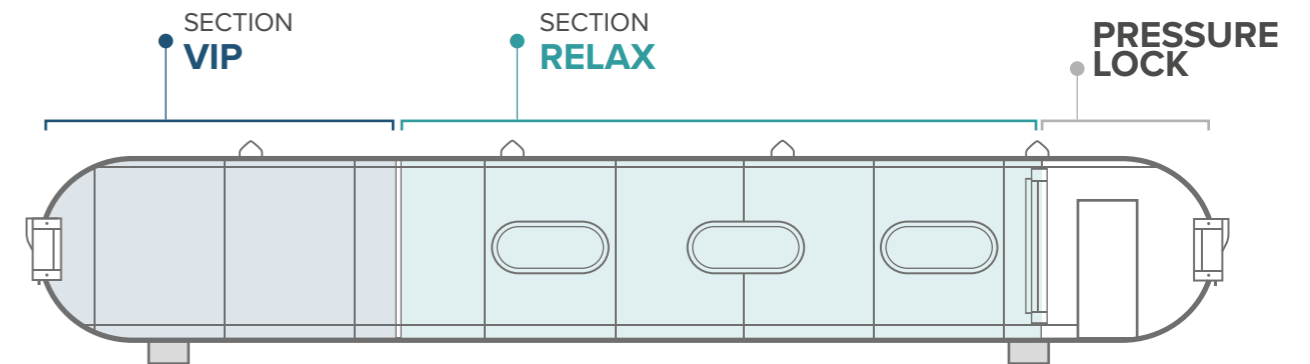
Ekonstal is the sole manufacturer that provides normobaric chambers produced with fully standardized production process. The process based on verified procedures implemented as part of **the Quality Management System in accordance with ISO 9001: 2015**, supervised by the UDT Cert.

The container of the pressure components in a packaged or standard normobaric chamber has been certified in a construction report by TÜV Rheinland, a notified body which has issued a Module B Type Test Certificate. Every normobaric chamber is supervised by the same notified body during production, which issues a Module F Certificate of Conformity at the end of production. Based on the Module B and F certificates, Ekonstal labels the structure of each normobaric chamber with a CE marking and the notified body number.

The manufacturer meets all national requirements for fire protection, which ensures full operating safety of the normobaric chamber.

In addition, the Ekonstal's normobaric chambers, as **the only ones in Poland, were tested by a team of scientists from the Faculty of Medicine** at the Collegium Medicum of the Nicolaus Copernicus University in Toruń. The results of these studies confirmed the health-promoting aspects of using the chamber.

CONSTRUCTION AND DIMENSIONS OF A NORMOBARIC CHAMBER



Main chamber - depending on a type - can accommodate from 11 to 19 people. Main chamber can be divided into two rooms (**RELAX section and VIP section**) or be designed as an one room. Additionally, there is a comprehensively equipped toilet inside.

ATMOSPHERE'S PARAMATERES INSIDE OF A NORMOBARIC CHAMBER

Normobaric chamber is divided for a pressure lock (where the process of compression and decompression occurs) and for a main chamber where the following parameters are maintained:

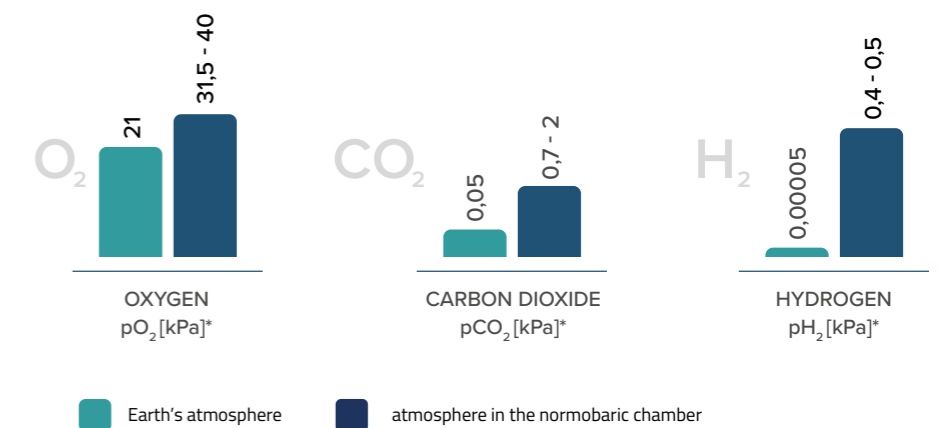
ATMOSPHERIC PRESSURE ON EARTH

101,3 kPa (1013 hPa)

ABSOLUTE PRESSURE IN THE NORMOBARIC CHAMBER

~150 kPa (~1500 hPa)

*partial pressure, i.e. molecular pressure; describes the pressure that gas exerts in the gas mixture



TYPES OF NORMOBARIC CHAMBERS

Symbol	Height with insulation [mm]	Total length [mm]	Total number of seats	Numer of seats in sections	
				RELAX	VIP
K1 V60	~3 550	10 400	11	11	0
K1 V70		11 900	13	13	0
K1 V80		13 400	15	15	0
K1 V90		14 900	13	9	4
K1 V100		16 400	16	12	4
K1 V120		18 400	19	15	4



Manufacturer:

Ekonstal Sp. z o.o.
ul. Słoneczna 30
88-230 Piotrków Kujawski, Poland

Sales office:

ul. Słoneczna 21, 86-031 Osielsko, Poland
+48 690 805 067
df@ekonstal.pl

EKONSTAL.PL/EN/