

PRO RESET



ZEUGMA

Reset Your Well-Being with our
Professional Wellness Solutions

ZEUGMA

Monoplace Hyperbaric Lounge

Designed for the comfort of one person.

The soul of the ZEUGMA is centered in its ergonomic design. Beyond technology, we have the human touch.

Discover ZEUGMA — the hyperbaric oxygen system designed with a central focus on user experience, personal space, visibility and interior comfort.

Built with medical grade technology, for safe and effective wellness sessions, the ZEUGMA is centred on ergonomics, aesthetics and turn-key functionality at the touch of your finger, literally!

The most visible features of the ZEUGMA hyperbaric chamber are the transparent windows that create an open and calming environment. The clear panels encourage a connection with the outside and promote a sense of openness rather than confinement, which is essential during hyperbaric oxygen therapy sessions.

The Hyperbaric chamber is pressurized with breathable air from the Air Compressor. During treatment, the patient breathes high purity oxygen directly from the BIBS (Built-In Breathing system), supplied using our premium 1,200 liters/hour 5 Bar Oxygen Concentrator.

This system is also connected to an Air Cooler to keep the air fresh inside the chamber and the temperature comfortable and under control.



Specifications

Operating Pressure	2.0 or 2.4 ATA
Design Temperature	0°C to 38°C
Air Supply (Air Pressurization)	3.45 bar to 7.2 bar
Air Supply Flow (Air Pressurization)	250 LPM Flow
BIBS Supply (Air or O ₂)	3.2 bar to 4.0 bar
BIBS Supply Flow (Air or O ₂ / person)	20 LPM Flow
Ventilation Rate	125 lpm to 400 lpm
Emergency Depressurization rate	2.0 ATA to 1.0 ATA in 90 sec
Maximum User Weigh	225 kg
Chamber weight	2.0 ATA – 400 kg or 2.4 ATA – 700 kg
Capacity	1 person
Shape and design	One unit, cylindrical shape, 3 modules, designed to fit any 80 cm standard doorway and space
Material	Aero-space aluminium or Steel

Modular design

The single unit chamber pressure vessel is built of three modules:

- 01. The control panel module, with piston door;
- 02. The central cylinder module with front acrylic window;
- 03. The transparent acrylic window module

The system is mounted on a wheeled chassis (with decorative front panel) for easy mobility.





Internal & External Control System

Including Internal Control Tablet, Occupancy Sensor, Chamber Pressure Indicator and etc.

Automation System

The automation system is used to control the chamber and run sessions automatically. It consists of automation software, industrial PLC, sensors, valves, and PC. The main unit of the automation system is PLC.

Entertainment system

The chamber can be equipped with a tablet for the users entertainment.

Power source

A discrete power source allows continued operation of chamber communications in the event of a power outage.

LED Lights

You can create a serene atmosphere inside with adjustable LED RGB lights.

Modular design

Chambers consist of the control panel module, the transparent acrylic door module that fit through a standard 80 cm wide door.

Patient monitoring

Chamber provides the capability to connect vital monitoring (such as EEG, ECG, TCOM and blood pressure).

Ventilation

The automatic ventilation system ensures the air inside is always fresh.

Automatic pressurization

Automatic pressurization and depressurization is activated after rates are set.

Ergonomic seating

Experience maximum comfort during your session from our ergonomic lounge seat to our luxury electric Maybach seat range, complete with customizations.

Eco Leather interior

The interior is wrapped in high-quality ecological leather upholstery for the most luxurious feeling.

Easy Mobility

The system is mounted on a wheeled chassis (with decorative front panel) for easy mobility.

Always in contact

The ability to hear, see, and monitor the patient at all times during treatment.

Simple operation

All chamber components are designed for ease of operation and require minimum maintenance.

Pneumatic controls

Chamber controls are completely pneumatic in nature, and require only a compressed gas source.



Welcome a new age of controlled oxygen breathing

The BIBS (Built-In Breathing System)

is regulated by the tempo of your breath. The BIBS regulator is designed to circulate oxygen effectively through the polyurethane hose, while removing carbon dioxide. This feature ensures a safe and controlled therapy environment, and always pure oxygen breathing.

External 21" Tesla-Style Control Panel

This is the main controller unit for the outside assistant. With this equipment, the pressure of the chamber is adjusted manually and automatically, communication with the user inside is ensured and the pressure chamber is evacuated in case of urgent exit is required.

External control tablet

External 21" Tesla-Style control tablet controls compression, decompression speed of the pressure chamber, operation and stopping of the in-cab cooler, monitoring of chamber pressure, adjusting session time, adjusting session pressure, session start, session stop, session finishing and door locking.

Manual pressurization button

The Manual Pressurization Button increases the pressure inside the chamber regardless of automation. Even when automation is not activated, the pressure inside the chamber can be increased from this button.

Manual exhaust button

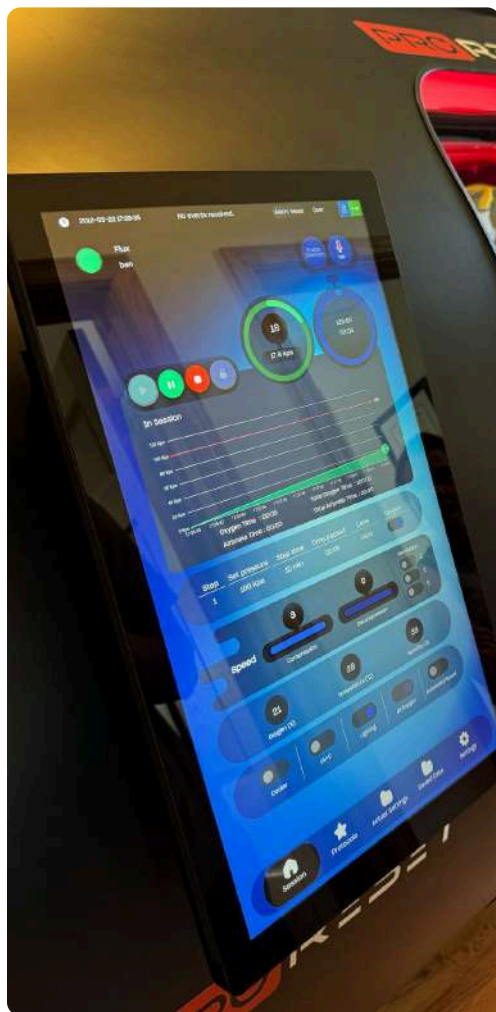
Manual Exhaust Button reduces the pressure regardless of automation. Even when automation is not activated, the pressure can be reduced from this button.

External InterCom (voice)

The InterCom provides voice communication with the inside of the pressure chamber. The InterCom has features such as an on-off switch, adjusting the volume of the sound from the inside and adjusting the volume of the incoming sound.

Emergency Stop button

The Emergency Stop Button ends the session in the pressure room in case of an emergency scenario. When the emergency stop button is pressed, the chamber's pressure drops as quickly as it can (in a way that does not harm the user).



Internal Control Panel

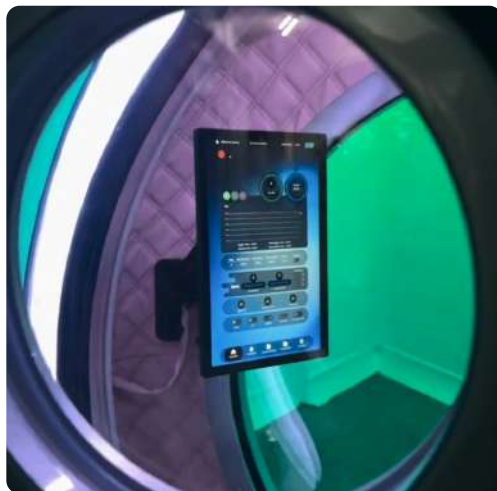
With this equipment, the pressure of the pressure chamber is automatically adjusted, communication is provided with the outside operator, and in case of emergency, the pressure chamber is relieved by the manual spherical valve inside.

Internal Touch Screen Control

Internal touch screen control Tablet controls compression, decompression speed of the pressure chamber, operation and stopping of the in-cab cooler, monitoring of chamber pressure, adjusting session time, adjusting session pressure, session start, session stop and door locking.

Occupancy Sensor

The Occupancy Sensor works with the UVC led located in the pressure chamber. When the Occupancy sensor detects anyone entering the pressure chamber, the sensor cuts off the energy of the UVC LED. The UVC LED is turned off so not to harm the user inside.



LED & UVC sterilization

UVC provides ambient disinfection with ultraviolet light. UVC sterilization & LED lighting work with the control tablet and Occupancy sensor.

Chamber Pressure Indicator

The Chamber Pressure Indicator indicates the pressure variations inside the chamber. It is a mechanical indicator for quick analog reading.

Internal Cooler

When the pressure inside the chamber increases, the temperature naturally tends to rise. To ensure maximum comfort, the internal cooler keeps the environment pleasantly cool and stable throughout the session. Temperature settings can be easily adjusted with a user-friendly tablet control.

Emergency Stop Button

The Emergency Stop Button ends the session in the pressure room in case of an emergency scenario. When the emergency stop button is pressed, the chamber's pressure drops as quickly as it can (in a way that does not harm the patient).

Inside InterCom

The inside InterCom provides Voice communication with the outside operator. The InterCom is always open, communication is never interrupted, the connection is crystal clear.

USB 3.0 port for devices

The USB port allows external hardware to connect with the host machine.

Software control

The controls and instrumentation for chamber operation are located on the control consoles, on the outside and also inside the chamber. This includes the gas control systems and communications system. Chamber control is done fully automatically via the Automation System.

Session status management

Session information is instantly taken from the relevant sensors and displayed in this section. Pressure, oxygen, temperature, and humidity values transmit information from sensors.

The screen displays information and controls:

- ⌂ Session Start/End/Stop
- ⌂ Door locking
- ⌂ Switching to manual control
- ⌂ Screen recording
- ⌂ Graphic cleaning
- ⌂ Authorization to internal control
- ⌂ Session time adjustment
- ⌂ Session pressure adjustment
- ⌂ Compression speed adjustment
- ⌂ Decompression speed adjustment
- ⌂ UVC on/off
- ⌂ Lighting on/off
- ⌂ Radiator on/off
- ⌂ Oxygen monitoring
- ⌂ Total time display
- ⌂ Session time display

Automation System

The automation system is used to control the chamber and run sessions automatically. It consists of automation software, industrial PLC, sensors, valves, and PC. The main unit of the automation system is PLC.

All devices (such as sensors, valves, etc.) connected to the PLC are monitored and controlled by the software. The number and type of controlled items depend on customer configuration and requirements.

Basic functions:

- ⌂ Automatic session control for speed, pressure & time
- ⌂ New Profile Entry
- ⌂ Ventilation of the Chamber
- ⌂ I/O calibration & other functions
- ⌂ Logging, Reviewing, and Printing tools
- ⌂ Session & Patient information
- ⌂ Session opening for Automation Software
- ⌂ Control of Valves by dimmer
- ⌂ Lighting on/off
- ⌂ UVC on/off
- ⌂ Radiator on/off
- ⌂ Monitoring of temperature, humidity, pressure, oxygen
- ⌂ Audio/Visual warnings to the operator
- ⌂ Audible warning and safety button for the operator
- ⌂ Valve openings or maximum compression or decompression rates settings.
- ⌂ Ear Opening
- ⌂ Session recording

Ergonomic seating

Experience maximum comfort with our range of customizable ergonomic seats during your hyperbaric oxygen therapy. Designed for luxury and tailored to your body's physiology, our seats reduce pressure point stress and boost circulation, ensuring a relaxed and effective treatment session.

Leather interior

The interior is wrapped in high-quality eco leather upholstery for the most comfortable feeling. The eco leather and stitching colors can be customized. Embroidery for branding applications is available upon demand.





Safety Features

1 Manometer

Manometer indicates the pressure of the chamber. It is used as a second pressure gauge when automation is running through the tablet.

The pressure value seen on the tablet indicates the value taken from the pressure sensor attached to the pressure chamber.

2 Emergency Exhaust Valve

The Emergency Exhaust Valve allows the hyperbaric chamber to be decompressed from the inside.

If the user inside is competent to use the chamber, he uses this valve to reduce the pressure level in a controlled manner.



SYSTEM COMPONENTS

1



Hyperbaric chamber

The main enclosure for therapy, designed to maintain controlled pressure. Monoplace chambers fit one patient, while multiplace models accommodate several.

2



Air Compressor

Supplies pressurized air to the chamber, ensuring stable conditions. Equipped with filtration systems, it provides clean and consistent airflow.

3



Oxygen Concentrator

Extracts oxygen from ambient air, purifies it, and delivers it at high concentrations for patient use through the BIBS mask. The number of units depends on chamber capacity.

4



Air Cooler

Regulates temperature and prevents heat buildup inside the chamber, maintaining fresh airflow for patient comfort during treatment.



Compressor

- 🔧 **Dimensions (LxWxH) cm:** 100x50x80
- 🔧 **Weight (Kg):** 45
- 🔧 **Horse Power (HP):** 2
- 🔧 **Lpm Output:** 250
- 🔧 **Noise Level (db):** 46



Oxygen Concentrator

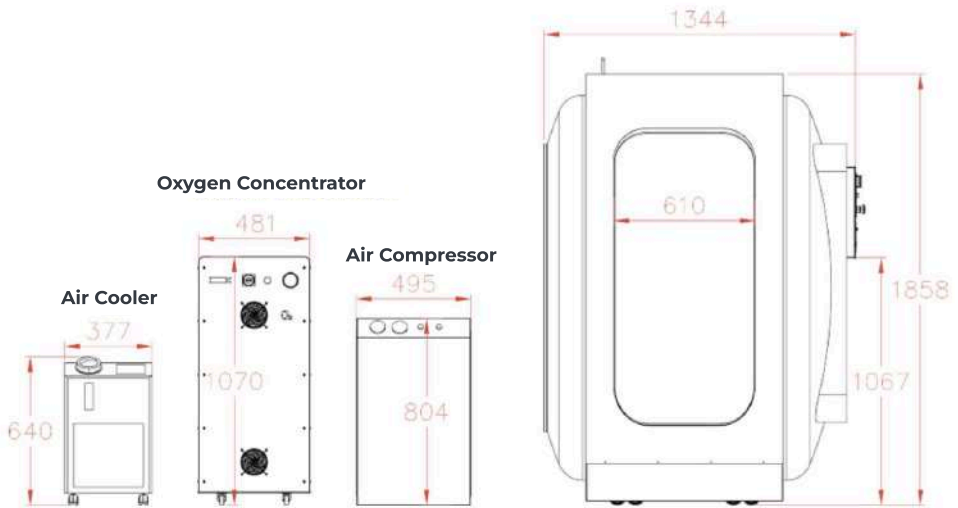
- 🔧 **Dimensions (LxWxH) | kg:** 70x48x107cm | 155kg
- 🔧 **Lpm | O2% | Pressure:** 20Lpm | ±93% | 5 Bar
- 🔧 **Watts | Horse Power (HP):** 2500W | 3.3hp
- 🔧 **Noise Level (db):** ≤72 db
- 🔧 **Units Required:** 1



SMC Chiller (Japan)

- 🔧 **Dimensions (LxWxH) cm:** 50x38x64
- 🔧 **Weight (Kg):** 40
- 🔧 **Cooling capacity:** 1kW (At -10°C)
- 🔧 **Set temperature range:** -10°C - 40°C
- 🔧 **Cooling Method:** Air-cooled refrigeration

SYSTEM DIMENSIONS



Overall Length: 1344 mm

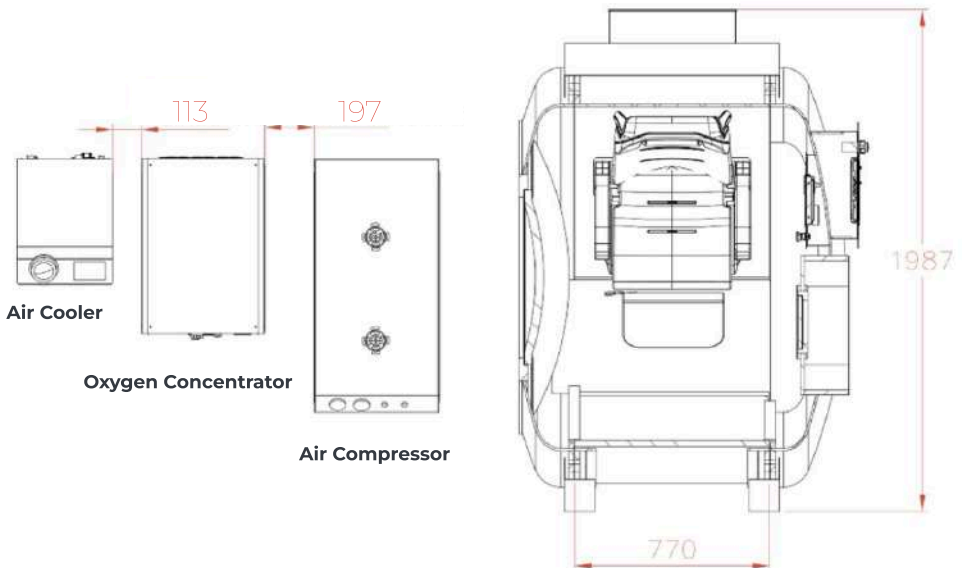
Overall Width: 1987 mm

Height: 1858 mm

Internal Diameter: 1620 mm

Internal Volume: 1.9 m³

Module width: 770 mm

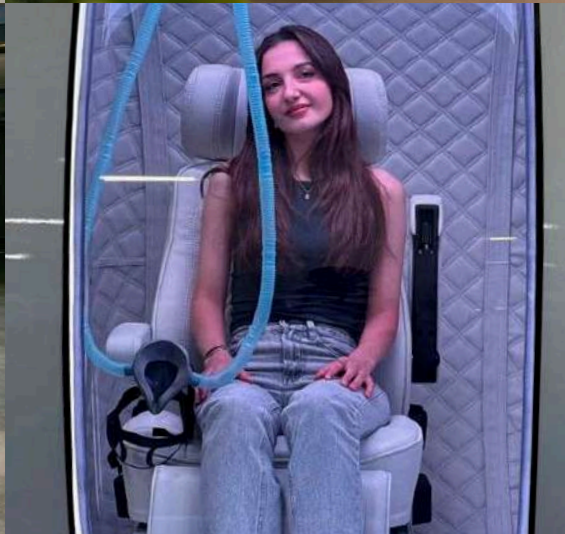


Optional Upgrades

- Custom Paint | Interior Lining | Chair Color
- Maybach Luxury Seat
- Alcantara Interior
- CO² Sensor
- Patient Monitoring System

ProReset® provides a range of customizable system components, to provide clients with complete and innovative solutions to reach their health objectives.





CERTIFICATIONS

Hyperbaric System is compliant with all international safety and quality standards.



Access our comprehensive hyperbaric technology portfolio, leading-edge medical and wellness solutions, including time-tested expertise in hyperbaric oxygen therapy.





PRORESET

ProReset® S.L.

C/Londres 18 - P.I. Mas de Taus

La Pobla de Vallbona Valencia 46185 Spain

WhatsApp: +34 624 198 129

Phone: +34 865 699 306

info@proreset.com

www.proreset.com