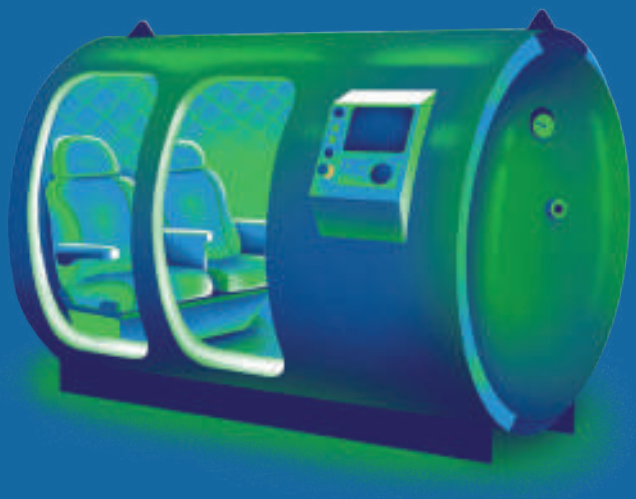
hpotech





4 SEATS

2.0 ATA → 2.4 ATA PRESSURE LEVEL

MEDITERANEAN Multiplace Hyperbaric Chamber

HPOTECH MEDİKAL VE TEKNİK ÇÖZÜMLER SANAY VE TİCARET ANONİM ŞİRKETİ
Address: Ferhatpaşa Mahallesi 31, Sokak No: 49, 34888, Istanbul, Türkiye



Scan to connect to our social network

E-mail → office@hpotech.com ● Phone → +1 (315) 512-1112 ● Web → www.hpotech.com

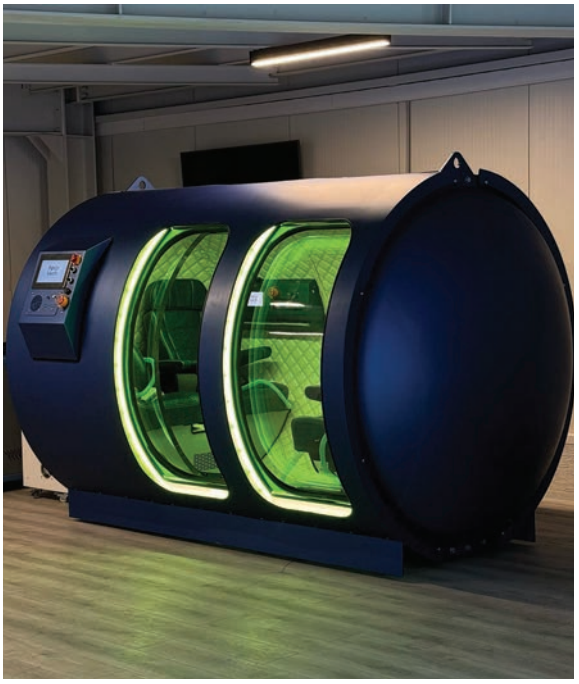
Hyperbaric oxygen therapy times four.

Experience comfort and togetherness during HBOT. The four-seat hyperbaric chamber system features two transparent acrylic windows to enhance connection with the outside. This total visibility promotes a relaxing oxygen breathing session, while the four-seat arrangement encourages human connection and team spirit during therapy.

Pure oxygen breathing times four.

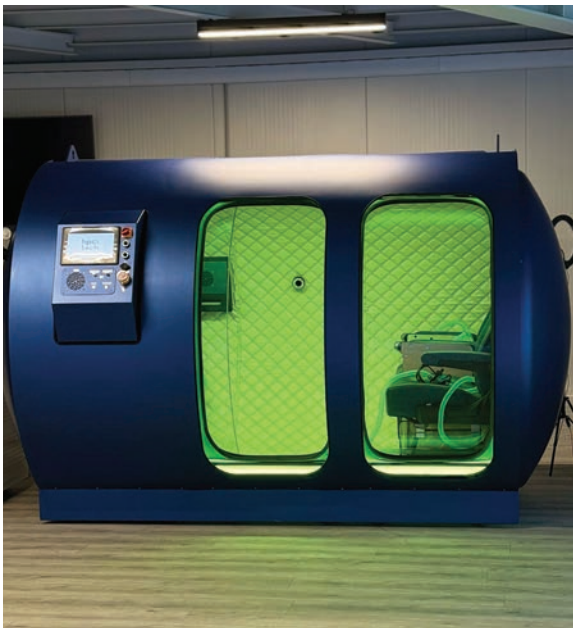
The Mediterranean chamber is safe, simple to use, low maintenance, and modular to fit through standard doorways. Share the HBOT chamber healing journey with your friends, family, or other users in the most comfortable environment. Enjoy automated controls and all the comforts of interior leather, ergonomic seating, ambient lights, and entertainment.



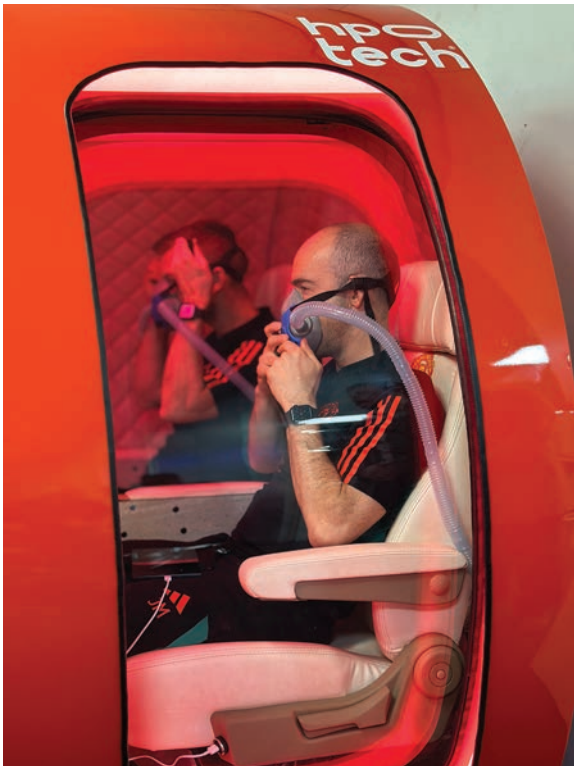











hpo
tech




hpo
tech


hpo
tech




hpo
tech

Healthy team spirit times four.

The MEDITERRANEAN chamber is perfect for sports recovery centers. It has a generous capacity to accommodate 4 athletes and offers extra visibility for peace of mind through the two large windows.

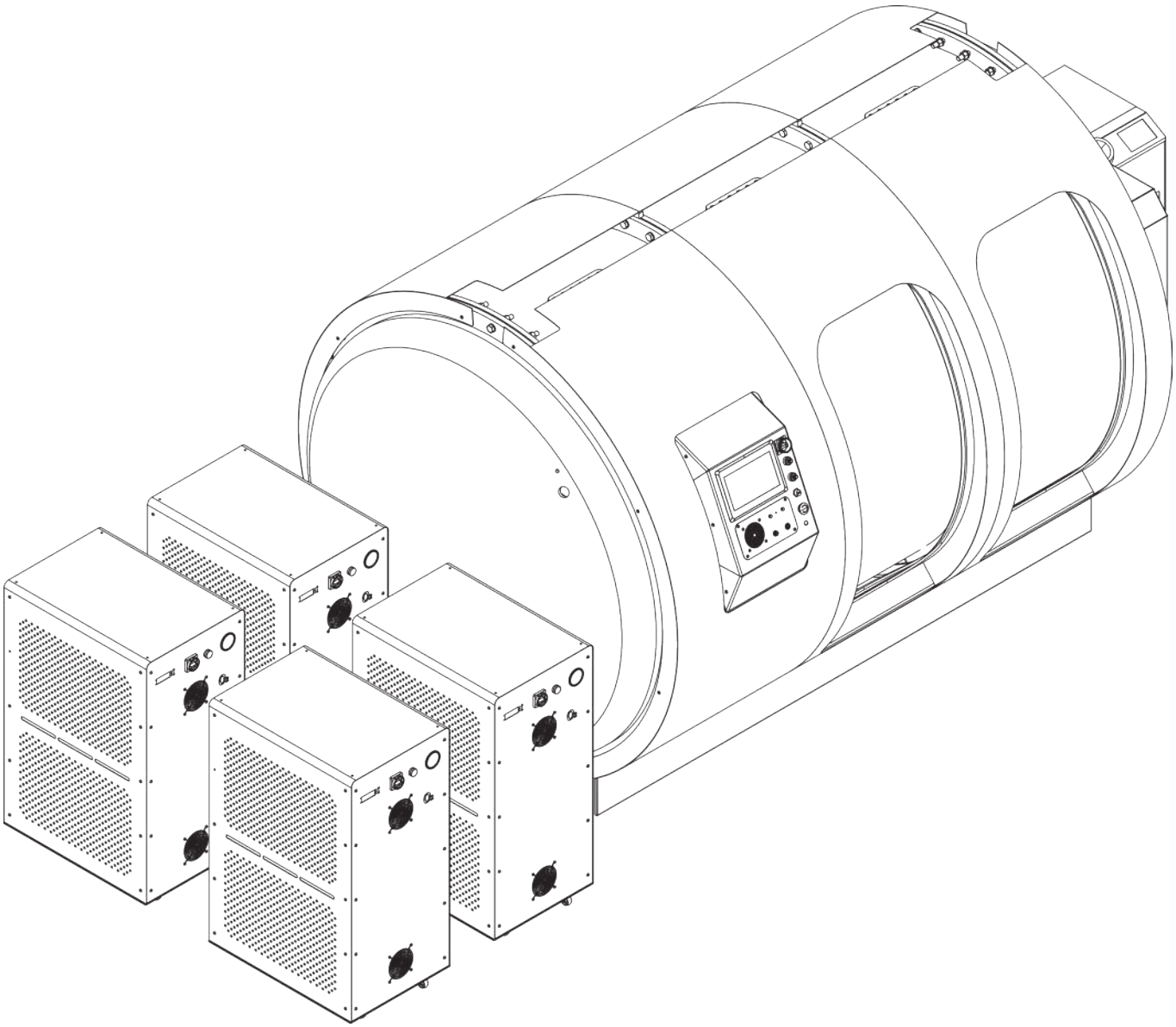
With ASME PVHO certification, the hyperbaric chamber is built for effective hyperbaric oxygen therapy sessions. It provides streamlined oxygen through the BIBS mask and a comfortable custom interior for four people to enjoy the therapy.

Share the therapy, share the health benefits.

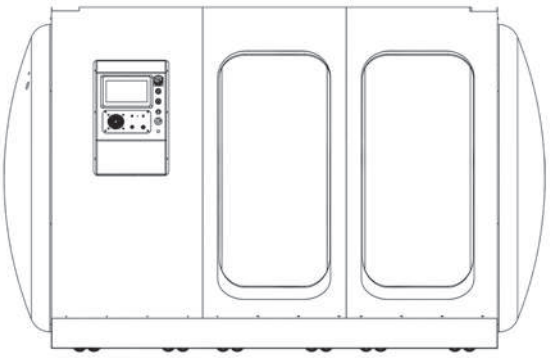



SAMSUNG

→ THE HYPERBARIC CHAMBER SYSTEM



→ SYSTEM COMPONENTS

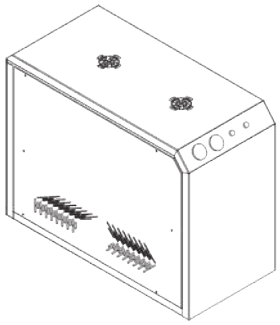


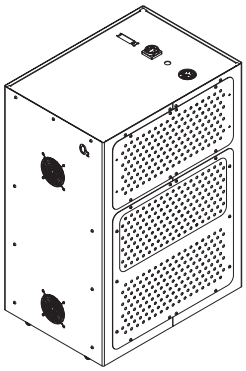
→ HYPERBARIC CHAMBER 4 SEATS

The Hyperbaric Chamber is a capsule in which users breathe pure oxygen under controlled pressure levels more up to more than double the atmospheric pressure (2.0 ATA → 2.4 ATA).

→ AIR COMPRESSOR 1 UNIT

The Hyperbaric chamber is pressurized with breathable air from the Air Compressor. Pressure + Oxygen are the two most important factors in HBOT.



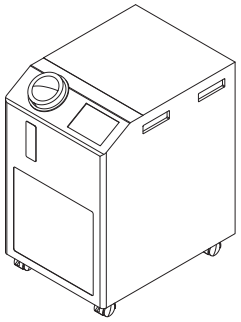


→ OXYGEN CONCENTRATOR 4 UNITS

During treatment, the user breathes high-purity oxygen supplied using the Oxygen Concentrators (6.0 ATA working pressure), directly into the BIBS (Built-In Breathing system). The number of Oxygen Concentrators is equal to the number of patients inside.

→ AIR COOLER 1 UNIT

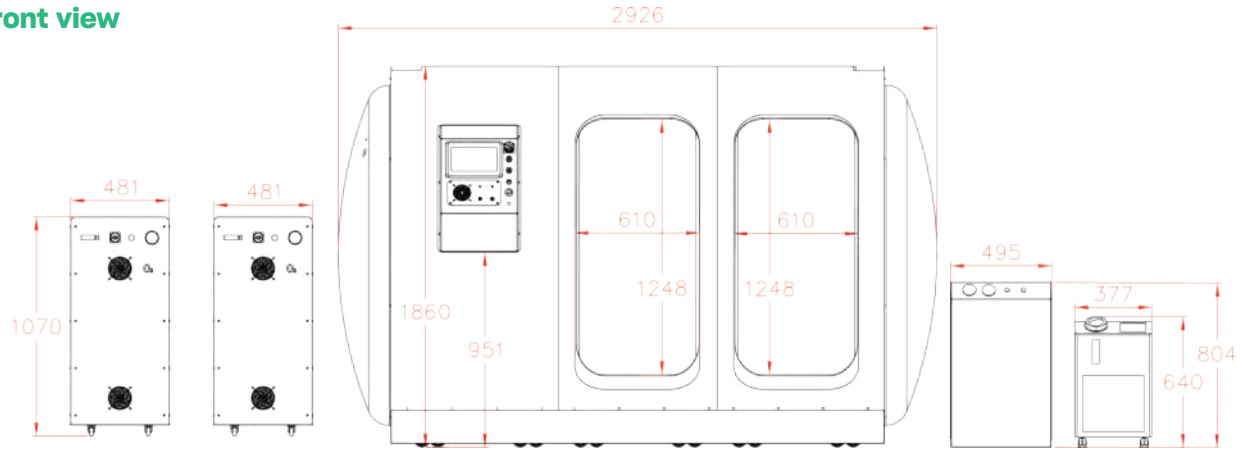
The system is also connected to an Air Cooler to keep the air fresh inside the chamber and the temperature under control.



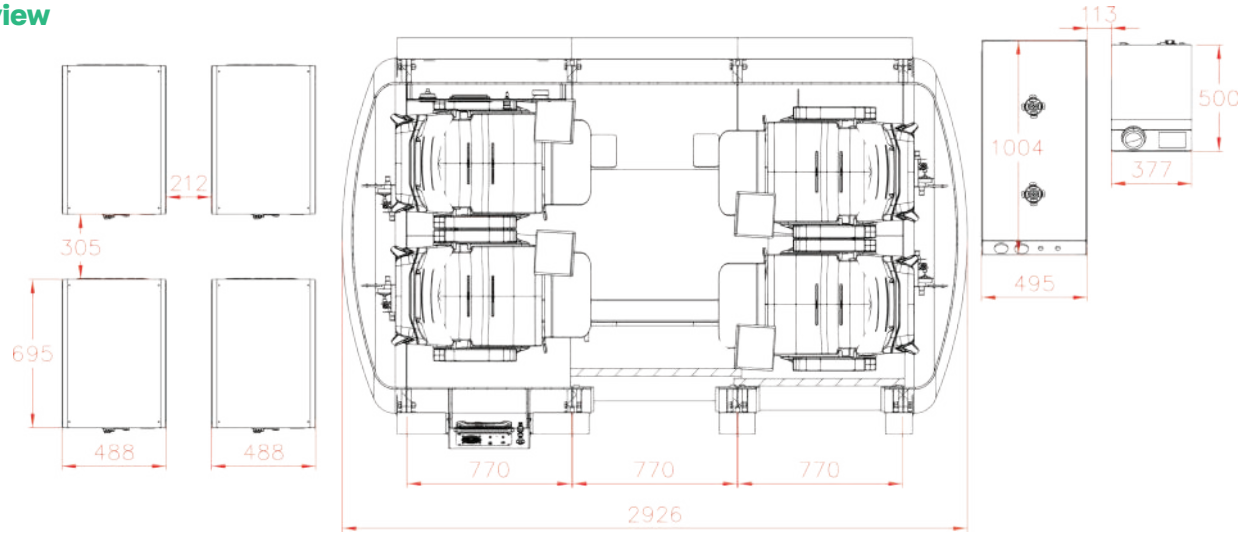
→ SYSTEM COMPONENTS

HYPERBARIC CHAMBER

front view



top view



CAPACITY

4 Persons (4 seats)

MATERIAL

Aero-space aluminium

SHAPE AND DESIGN

3 module cylindrical shape, designed to fit any standard doorway and space

MODULE WIDTH

770 mm
30.315 in

MINIMUM INSTALLATION FLOOR SIZE

6000 mm × 3500 mm
236.22 in × 137.79 in

OVERALL LENGTH

2926 mm
115.19 in

OVERALL WIDTH

1910 mm
75.19 in

HEIGHT

1860 mm
73.22 in

WEIGHT

1250 kg
2755 lbs

INTERNAL LENGTH

2900 mm
114.17 in

INTERNAL VOLUME

5.8 m^3

MAX. OPERATING PRESSURE

2.0 ATA (1.4 BAR)
34.80 PSI

DESIGN TEMPERATURE

0° C to 38° C
32° F to 100.4° F

AIR PRESSURIZATION

3.45 bar to 7.2 bar

AIR SUPPLY FLOW

450 LPM

BIBS OXYGEN SUPPLY

3.2 bar to 4.0 bar

VENTILATION RATE

125 LPM to 400 LPM

EMERGENCY DEPRESSURIZATION RATE

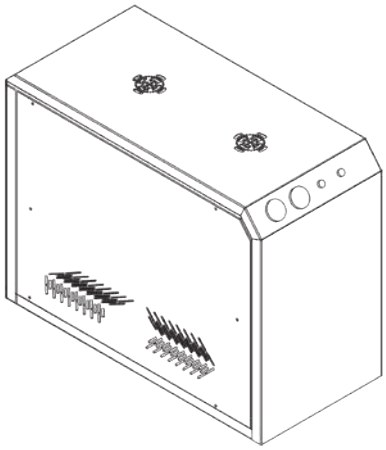
2.0 ATA to 1.0 ATA in 90 sec
29.39 PSI to 14.69 PSI

MAXIMUM PATIENT WEIGHT

225 kg
496.04 lbs

→ SYSTEM COMPONENTS

AIR COMPRESSOR



POWER

4 HP

PRESSURE RANGE

1-8 bar/116 PSI

WEIGHT

67 kg
147.71 lbs

FLOW

564 LPM

NOISE LEVEL

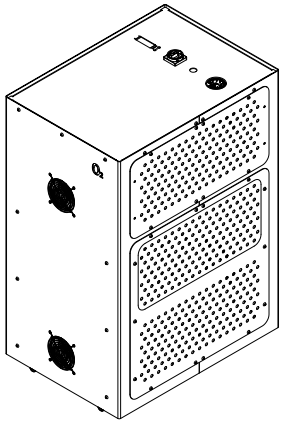
42 decibel

SIZE

(W) 495 mm
(L) 1004 mm
(H) 804 mm
(W) 19.48 in
(L) 39.52 in
(W) 31.65 in

→ SYSTEM COMPONENTS

OXYGEN CONCENTRATOR



POWER

2500 W / 3,3 HP

OXYGEN FLOW RANGE

1~20 LPM

OXYGEN OUTPUT PRESSURE

5 BAR / 72 PSI

OXYGEN PURITY

90%—93%

NET WEIGHT

155 KG
341.717 lbs

NOISE DB(A)

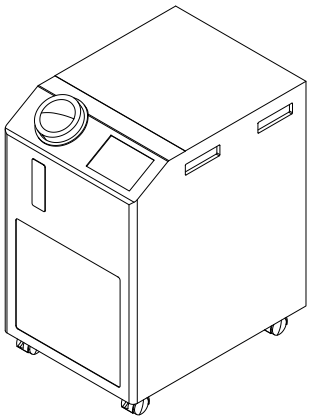
≤ 72 DB

DIMENSION

(L) 695 mm
(W) 481 mm
(H) 1070 mm
(W) 27.36 in
(L) 18.93 in
(W) 42.12 in

→ SYSTEM COMPONENTS

AIR COOLER



COOLING CAPACITY

1500 W (at 5° C 66° F)

TEMPERATURE STABILITY

±0.1° C
32.18° F

SET TEMPERATURE RANGE

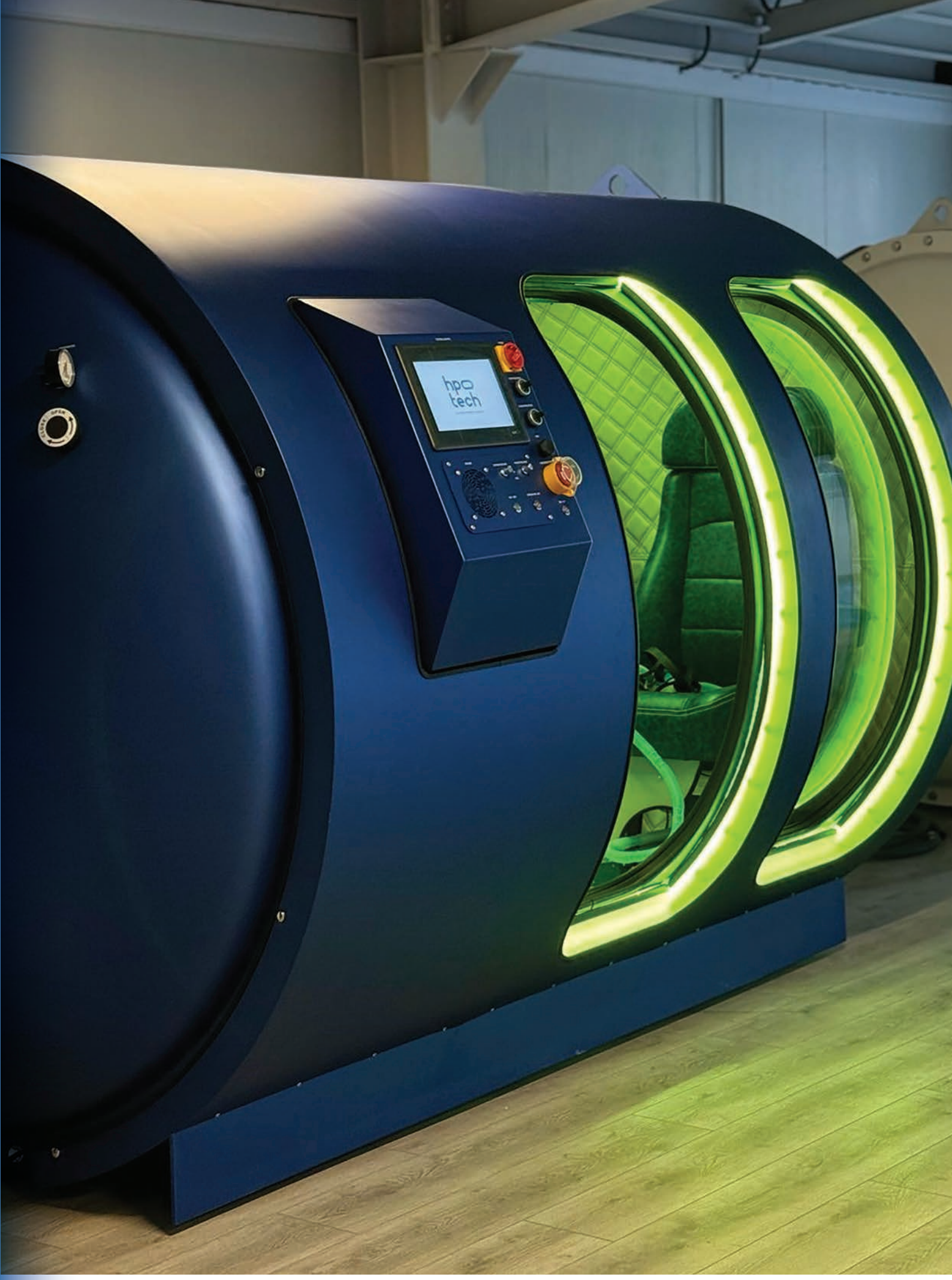
5°C to 40°C
66° F to 104° F

COOLING METHOD

Air-cooled refrigeration

SIZE

(W) 377 mm
(L) 500 mm
(H) 640 mm
(W) 14.84 in
(L) 19.68 in
(W) 25.19 in


hpo
tech

→ BIBS MASK

The Built-In Breathing System (BIBS) is regulated by the tempo of your breath.



The BIBS system provides a comfortable and efficient way to inhale pure oxygen during hyperbaric therapy sessions. The BIBS mask and regulator work together to deliver oxygen to the user while removing carbon dioxide, ensuring a safe and controlled environment.

This system is particularly beneficial for regulating oxygen intake compared to free-flow methods, maximizing the therapeutic benefits of hyperbaric oxygen therapy.

Welcome a new age of controlled oxygen breathing

➜ CONTINUOUS FLOW OF OXYGEN

The BIBS system offers a continuous flow of oxygen, unlike traditional demand regulators. This ensures a consistent oxygen supply, even for patients with breathing difficulties.

➜ REDUCED RISK OF CO2 BUILDUP

The system helps prevent carbon dioxide buildup, minimizing potential risks associated with high-pressure environments.

➜ CONTROLLED OXYGEN CONCENTRATION

BIBS also provides precise control over oxygen concentration, regardless of chamber pressure fluctuations.



→ CUSTOM FEATURES

Ergonomic seating

Experience maximum comfort

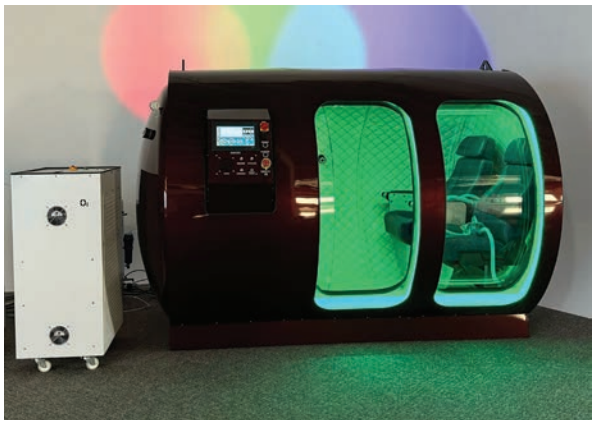
Tailored to your body's physiology, the ergonomic seats reduce pressure point stress and boost circulation, ensuring a relaxed oxygen treatment session. You can choose one of three available seat models.



Interior leather

A touch of class

The interior is wrapped in high-quality ecologic leather upholstery for the most comfortable and inviting feeling and a classy look.



Custom design

Make your MEDITERANEAN personal

Choose the exterior paint color combination (RAL), the interior leather color, and the application of branding elements like logos (seat head rests) or additional entertainment options.





→ SYSTEM FEATURES

External Control Panel

Your command center for hyperbaric oxygen sessions



Navigate pressure adjustments, monitor vital information, maintain clear communication with your patient, and confidently control every aspect of the chamber. Be prepared for any situation with manual overrides and an emergency stop button. Take control of the user's well-being and elevate your hyperbaric therapy experience.



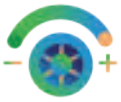
➜ External control tablet

Manage everything with the intuitive touchscreen control, from setting the pressure and session parameters to locking the chamber door. Monitor the session with clear visuals and data on chamber pressure, time, and other vital information.



➜ Power On switch

Start your session: The switch turns on the electrical equipment, activating the control panels for manual and/or automatic HBOT sessions.



➜ Manual compression / decompression knobs

Take command with the manual pressure knobs, adjusting compression and decompression independently of the automatic system for greater control.



➜ Emergency Stop button

Peace of mind control: Terminates session in the pressure room if needed, and quickly drops chamber pressure to a safe level.



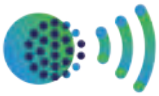
➜ Emergency decompression valve

In an emergency, the pressure chamber is relieved by rotating the manual spherical valve from inside or outside the chamber.



➜ USB port

Peace of mind control: Terminates session in the pressure room if needed, and quickly drops chamber pressure to a safe level.



➜ External Intercom

Provides voice connection with the user inside. It's always open for crystal clear communication with volume control.





→ SYSTEM FEATURES

Internal Control Panel

Master your HBOT session from within.



Take charge of your hyperbaric experience with the intuitive internal control panel. Adjust pressure, time, and settings while monitoring key information on the built-in displays. You're always in communication with the outside; all commands are mirrored for outside and inside user control.



➜ Internal control tablet

Manage everything with the intuitive touchscreen control, from setting the pressure and session parameters to locking the chamber door. Monitor the session with clear visuals and data on chamber pressure, time, and other vital information.



➜ Power on switch

Start your session: The switch turns on the electrical equipment, activating the control panels for manual and/or automatic HBOT sessions.



➜ Chamber pressure indicator

Mechanical dial indicator for quick analog reading of pressure variations inside the chamber.



➜ Emergency stop button

Peace of mind control: The button terminates session in the pressure room if needed, and quickly drops chamber pressure to a safe level.



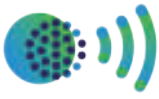
➜ Internal cooler

Operated using the control tablet, it adjusts chamber temperature when pressurized for a comfortable HBOT session experience.



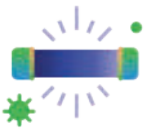
➜ USB port

The handy USB 3.0 port helps update the software, upload custom settings, or download your session archive.



➜ Internal intercom

Provides voice connection with the user inside. It's always open for crystal clear communication with volume control.



➜ UV-C light disinfection

The chamber features UV-C light disinfection, which inactivates viruses and bacteria from surfaces and ambient air, ensuring a clean and safe interior environment.



➜ Occupancy sensor

Automatically disables UVC when someone enters the pressure chamber, ensuring disinfection and user safety.

→ CENTRALIZED SOFTWARE CONTROL

The control consoles, located on the outside and inside the chamber, provide the controls and instrumentation for chamber operation. This includes the gas control systems for HBOT sessions and the communications system. The user-friendly interface allows for customization of specific HBOT protocols with accurate metrics and simple controls.

Tracking session progress and user data in real-time

Sensors track essential parameters during HBOT sessions, enabling real-time monitoring and adjustments. The system gathers and displays real-time session information, including pressure, oxygen, temperature, humidity, patient vitals, and treatment duration.

Session status management

The protocols of each HBOT session are recorded in the data logger for future reference. This enables healthcare providers to observe treatment response, adjust protocols if necessary, and assess the overall progress of the therapy.

Advanced automation system

The chamber is fully automated via an advanced Automation System. Automation streamlines chamber operations and reduces manual intervention. The system consists of automation software, industrial PLC, sensors, valves, and a PC. The PLC is the central control unit, monitoring and controlling the connected devices.

→ SMART TECHNOLOGY, USER-FRIENDLY OPERATION.



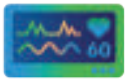
Simple operation

All chamber components (hardware and software) are designed for ease of operation and require minimum maintenance.



Always in contact

Advanced monitoring and communication systems ensure continuous patient care. You can hear, see, and always monitor the patient during treatment.



Patient monitoring

Chamber penetrations and electrical connectors provide the capability to connect vital monitoring (such as EEG, ECG, TCOM and blood pressure).



Entertainment system

The chamber is equipped with large-screen TV, or tablets for the users, including other customizable additions.



LED Lights

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



Ventilation

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



Pneumatic controls

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



Power source

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






hpo
tech





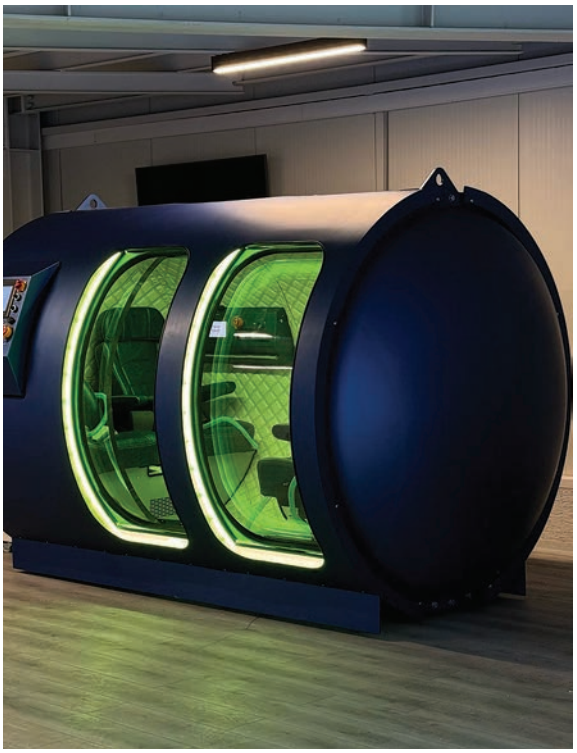

















EMERGENCY STOP

Certifications and Total Quality Management for hyperbaric chamber manufacturing

Our Total Quality Management system includes all aspects across design, manufacturing, testing, functionality, and customer service to ensure our hyperbaric oxygen systems are effective in therapy, but also safe, reliable, and accessible for patients.

Certifications

Holding all the important ASME-PVHO, PED, CE, ISO, NFPA, etc certifications, our products are manufactured, tested, and certified to the highest quality and safety standards. We comply with all international safety and quality regulations.

Safety and compliance

Safety standards and certifications play a vital role in guaranteeing the quality and reliability of hyperbaric chambers used for hyperbaric oxygen therapy (HBOT).

Quality testing

Our quality control team coordinates the manufacturing and third-party testing process according to international regulations, procedures, and criteria for the certification of medical devices for medical HBOT & wellness applications.

ASME PVHO Pressure Vessel For Human Occupancy

PED Pressure Equipment Directive

2006/42/EC Machinery Directive

93/42/EEC Medical Device Directive

2001/95/EEC

ISO 13485 Medical Devices Management System

ISO 9001 Quality Management System

ISO 45001 Occupational Health and Safety

ISO 14001 Environmental Management System

ISO 27001 Information Security Management

ANEP 26 Ergonomic Military Standards

TÜRK LOYDU




hpo
tech



HPOTECH MEDİKAL VE TEKNİK ÇÖZÜMLER SANAY VE TİCARET ANONİM ŞİRKETİ
Address: Ferhatpaşa Mahallesi 31, Sokak No: 49, 34888, Istanbul, Türkiye

E-mail: office@hpotech.com
Phone: +1 (315) 512-1112
Web: www.hpotech.com

Scan to see on YouTube