

Company & Product Introduction

LANNX BIOMEDICAL



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Hyperbaric Oxygen Chamber

What is hyperbaric oxygen therapy (HBOT)?

Hyperbaric oxygen therapy (HBOT) is a medical treatment that involves breathing pure oxygen in a pressurized room or chamber. This therapy is used to treat various medical conditions by increasing the amount of oxygen in the patient's blood, which can promote healing and provide other therapeutic benefits.

Our normal atmospheric pressure in everyday life is 1 ATA = 100 kPa. Hyperbaric oxygen therapy involves increasing the pressure of the oxygen chamber above 1.1 ATA = 110 kPa. In this environment, oxygen absorption is more efficient.

Who cannot use the hyperbaric chamber?

Do not use the hyperbaric chamber if you are wearing the following medical devices:

1. Implantable medical devices, such as pacemakers and implantable defibrillators.
 2. Portable medical equipment, such as electrocardiographs.
- Please be aware that this type of medical equipment can cause malfunction or serious bodily harm in a pressurized environment.



Hyperbaric Oxygen Chamber

- A hyperbaric chamber is a specialized medical device for hyperbaric oxygen therapy. It is divided into two types: pressurized air chamber and pure oxygen chamber, depending on the pressurization medium. Its scope of application is very broad and is primarily used in the clinical treatment of anaerobic bacterial infections, CO poisoning, air embolism, decompression sickness, hypoxic-ischemic encephalopathy, head trauma, and cerebrovascular disease, among others.
- Some therapeutic applications of hyperbaric chambers include the treatment of decompression sickness, skin injuries, burns, and carbon monoxide poisoning, as well as post-radiation therapy.
- Treatment of decompression sickness/air embolism: This condition occurs when a diver surfaces too quickly after a deep or prolonged dive without a decompression stop. It can also affect people who have worked with compressed air tanks, pilots at high altitudes, or astronauts after spacewalks. Hyperbaric oxygen treatment is very effective in these cases.
- Treatment of skin injuries and burns: Some wounds or burns do not heal or become gangrenous quickly. Hyperbaric oxygen chambers are often used specifically for severe burns. People with pressure ulcers, gangrene, and Burger's disease, as well as diabetics with wounds, can also receive treatment in a hyperbaric chamber.
- Post-radiation therapy treatment: Complications can occur after the use of radiation therapy to treat cancer, such as tissue damage caused by advanced radiation. Hyperbaric oxygen therapy can improve oxygen delivery to damaged tissues and prevent necrosis.
- Treatment of carbon monoxide poisoning: Severe carbon monoxide (CO) poisoning can lead to advanced neurological sequelae, especially if loss of consciousness has occurred. This can lead to memory problems, personality disorders, and mood swings. Hyperbaric chamber treatment appears to be very effective in reducing the risk of late effects.

Application

Hyperbaric oxygen chambers are also widely used in non-medical institutions, primarily for preventive medical care and conditioning.



Home/personal use



Beauty salon/SPA



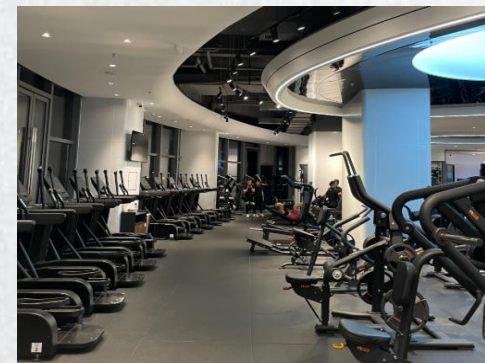
Clínic/Hospital



Nursing homes



Rehabilitation center



Hotels, office buildings, clubs, gyms, and other leisure and entertainment venues.

HBOT Type

Different Hyperbaric Chamber Type



Soft TPU Chamber

1. Portable Design.
2. Foldable TPU can save space.
3. Favorable price.



Hard Steel Chamber

1. Easy to entry/exit.
2. Better oxygen therapy experience.
3. Popular for clinic/healthy center.



Luxury Chamber

1. Fashionable appearance.
2. Fully equipped with AC/massage chair.
3. Aims at high end market like beauty salon.



About Soft Chamber



- TPU material
- 1.3ATA or 1.5ATA normally
- White/Blue color
- Optional Bracket/Frame
- Optional Air Conditioner





Soft Chamber Models





Optional Bracket/Frame

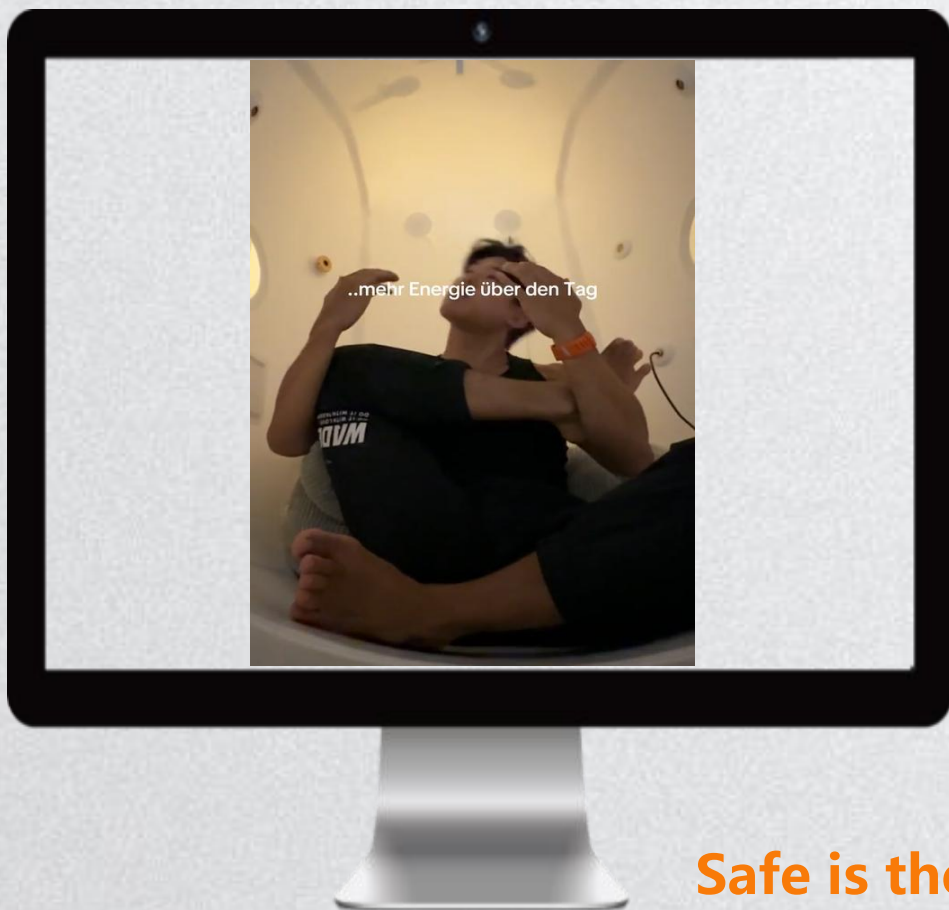
To hold the chamber body





Optional Air Conditioner

To improve oxygen therapy experience



The advantages:

1. DC appliance.
2. Water-Cooling technology.
3. Eco-Friendly and safe.

Safe is the prior principle we need to consider for production!



About Hard Chamber



- Steel material
- 1.3ATA or 1.5ATA normally
- Custom color acceptable
- Optional TV
- Optional Air Conditioner
- Optional Massage Chair



Hard Chamber Models

DR.HUGO



135*78*180CM

DR.HUGO



140*80*188CM

DR.HUGO



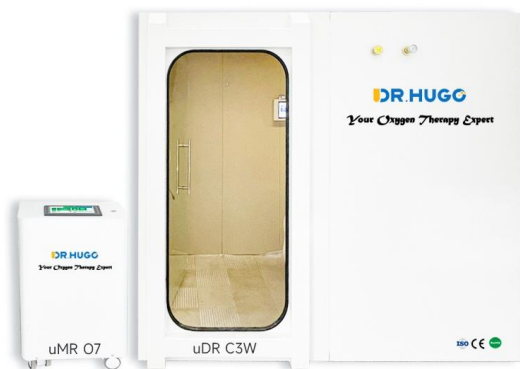
175*88*188CM

DR.HUGO



180*100*190CM

DR.HUGO



220*120*190CM

DR.HUGO



220*180*190CM

DR.HUGO



220*300*190CM





TimeCapsule Series

2ATA Hard Lying Chamber

DR.HUGO



The advantages:

1. Cheapest 2ATA hard chamber.
2. Magnetic door.
3. Dual panel control system.
4. 2 chamber size:
TimeCapsule C750+: $\Phi 750 \times 2160\text{mm}$
TimeCapsule C900+: $\Phi 900 \times 2160\text{mm}$



Rejuven 2ATA Series

We must add the frame on chamber body and use thicker material to make the chamber withstand 2ATA high pressure.



**Rejuven R1
Rugged version**



**Rejuven R1
Exquisite version**



Luxury Type Chamber

All equipment included like air conditioner/massage chair.



**Paramount 1 for
single person**



**Paramount 4 for
4 persons**

Cryotherapy Chamber



1. Equivalent to a full-body spa
2. Equivalent to dredging the entire body's meridians in 1 hour
3. Equivalent to 3 hours of negative oxygen ion therapy
4. Equivalent to 3 full-body whitening treatments
5. Equivalent to the fat burned by running 10 kilometers
6. Equivalent to 10 full-body massages
7. Equivalent to 45 minutes of lymphatic detoxification
8. Equivalent to 500 chest-expanding aerobic exercises
9. Equivalent to 36 million cell movements

Cryotherapy is a non-invasive treatment that exposes the body to temperatures ranging from -100°C to -170°C in a cryotherapy chamber. The sudden drop in temperature caused by ammonia vapor after the liquid ammonia evaporates stimulates the human body's temperature sense, prompting the brain to send signals to return blood to the body's major organs, thereby promoting blood, nerve, and other circulatory systems of the body and effectively improving various bodily functions. The product uses gasified liquid nitrogen to spray and instantly dry cool to $\text{minus } 110^{\circ}\text{C} \sim \text{minus } 160^{\circ}\text{C}$, providing healthcare therapy for athletes and healthcare users. The principle is that the patient undergoes cold therapy in the cabin for about 2-3 minutes. To cope with the low-temperature environment, the human body will naturally and instinctively produce a "stress response." Under the influence of the stress response, blood will flow again to protect the core parts of the body. After cold therapy, blood will flow again to various parts, releasing more endorphins and hormones in the process. These substances can make people feel happy and trigger the brain to rapidly produce hormones to reduce tissue inflammation, relieve pain, and increase metabolism. This will achieve effects such as sports rehabilitation, body shaping, stress relief, and sleep aids.

Application scenarios



Sports recovery center



Beauty spa/yoga center



Sports Club Center



Combat Sports Training Center



Aerobics fitness and
physical training center



Various types of
aerobics centers



University Athletics
Office Training Center



Sports Center for Companies
and Institutions

Cryotherapy System



uCyro C8

uCyro P8

uCyro M8

uCyro A8

uCyro L8

uCyro E1
Electric Type

Liquid nitrogen cryotherapy system

Cryotherapy System



uCyro P8

Chamber size: $\Phi 1200$ mm x 1600 mm

Control system: 400 x 600 x 1000 mm

Weight capacity: 53 kg

Color: Blue

Maximum capacity: 1 person

Temperature range: -180° C to -90° C

Liquid nitrogen consumption: 2 L/time

Cold therapy duration: 3-5 minutes (two modes switchable and can be stopped at any time)

Liquid nitrogen consumption: 2-3 L

Pre-cooling time: No pre-cooling is required; you can start treatment directly at room temperature. You can also start pre-cooling; the pre-cooling time is less than 90 seconds.

Liquid nitrogen refrigerant

Cryotherapy System



uCryo C8

Dimensions (L: 1450 x W: 780 x H: 1980 mm)

Weight capacity: 240 kg

Color: White, black, or customized

Interior: High-quality synthetic leather

Exterior: Metal

Maximum capacity: 1 person

Temperature range: -170°C to -130°C

Liquid nitrogen consumption: 1.1 L/min

Cold therapy duration: 3-5 minutes (two modes can be switched and stopped at any time)

Liquid nitrogen consumption per session: 3-5 L

Pre-cooling time: 1 minute

Cryotherapy System

uCyro M8

Dimensions: Height 2431 mm x Width 858 mm x Depth 858 mm

Weight Capacity: 100 kg

Color: Black (customizable)

Texture: Matte

Material: GRP (Glass Reinforced Fiberglass)

Maximum Capacity: 1 person

Temperature Range: -180°C to -120°C

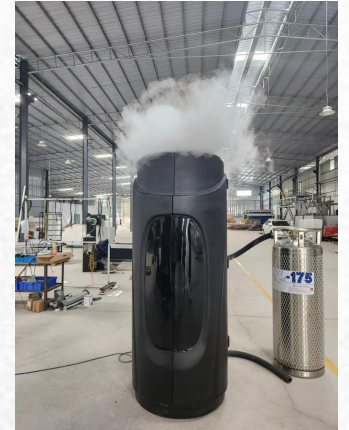
Liquid Nitrogen Consumption: 3 L/hour

Cold Therapy Duration: 3-5 minutes (two modes switchable and can be stopped at any time)

Liquid Nitrogen Consumption: 3-4 L

Pre-Cooling Time: 1 minute

Refrigerant: Liquid Nitrogen



Cryotherapy System

uCyro L8

Dimensions: Height 2050 mm x Width 1637 mm x Depth 1100 mm

Load capacity: 200 kg

Maximum height: 1500–1900 mm

Temperature range: -160–110 ° C

Liquid nitrogen consumption: 8 L/time

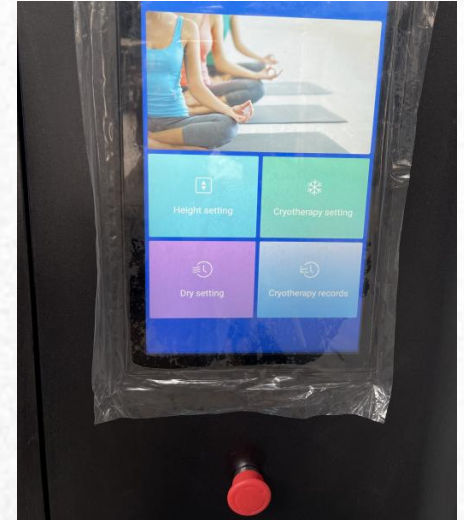
Platform lifting range: 300 mm

Power consumption: 1.2 km

Operating noise: <30 dB

Main structure:

- ① Sub-screen ② Interior ③ Main screen ④ Emergency stop switch
- ⑤ Handle ⑥ Door body ⑦ Camera body ⑧ Camera base
- ⑨ Wheels ⑩ Forklift port ⑪ Access door ⑫ Door lock
- ⑬ Liquid nitrogen inlet ⑭ Power outlet



Cryotherapy System

uCyro E1



Chamber Style: Closed

Size: 1450 (W) x 1000 (D) x 2400 (H)

Weight Capacity: 380 kg

Color: Black or White (customizable)

Material: Stainless Steel

Power (W): ≤ 8500 W

System: One-click Start/Stop

Control Panel with Secondary Interface

Both interfaces are adjustable

Intelligent Control: 1. Automatic Night Shutoff

2. Configurable Pre-Cooling for Startup

Minimum Temperature: -70° C

Other customizable minimum temperature settings

Usage Time: 180 s

Operating System: Intelligent

One-click Start/Stop

Time Setting Range: 180 s

Temperature Display: From Room Temperature to -70° C

Hypoxico Altitude Training System Altitude Generators/Hypoxico Machine

Altitude training, also known as hypoxia training, is a training regimen focused on improving athletic performance and physical fitness. Hypoxic generators are used to simulate oxygen concentrations at altitudes up to 6,500 m above sea level. Athletes and mountaineers simulate the plateau environment to train anywhere. This helps them better adapt to altitude. Hypoxia treatment also plays an important role in numerous medical applications.

Features:

- 24/7 continuous operation.
- Hypoxic purity from 9% to 20.9% to simulate different altitudes.
- With hypoxic output and oxygen output for different needs.



Hypoxico Altitude Training System Altitude Generators/Hypoxico Machine



HigherAltitude HX2

Application - For sports centers/home gyms: improve athletic performance.
- For military use: survival training in high-altitude environments.
- For mountaineers: adaptation to high-altitude environments, relief of altitude sickness.
- For medical and healthcare use: adjuvant therapy.
- For diabetes, asthma, lung, heart, and vascular diseases, spinal cord injuries, and others.
Hypoxic Flow: 100 LPM
Hypoxic Concentration (Hypoxic Port): 9%-20.9%
Outlet Pressure: <0.18 MPa
Oxygen Concentration (Oxygen Port): 80%
Simulated Altitude: 0-6500 m (0-21,330 ft)
LCD Display: Start times, operating pressure, current operating time. Cumulative operating time, preset time from 10 minutes to 40 hours.



HigherAltitude HX3

Application: - For sports centers/home gyms: improves athletes' performance.
- For military use: survival training in high-altitude environments.
- For mountaineers: adaptation to high-altitude environments, relief from altitude sickness.
- For medical and healthcare use: adjuvant therapy.
- For diabetes, asthma, lung, heart, and vascular diseases, spinal cord injuries, and others.

Hypoxic Flow: 100 LPM
Hypoxic Concentration (Hypoxic Port): 9%-20.9%
Outlet Pressure: <0.18 MPa
Oxygen Concentration (Oxygen Port): 80%
Simulated Altitude: 0-6500 m (0-21330 ft)
Sound Level: <46 dB
LCD Display: Start times, operating pressure, and current operating time. Cumulative runtime, preset time from 10 minutes to 40 hours
Power consumption <710 W
Alarms: Power outage alarm, high/low pressure alarm



Thanks for watching!

THE END