



FOR HEALTH FOR THERAPHY FOR SAFETY





Oxytech is a certified medical device manufaturing company that offers manufacturing service to Hyperbaric Chambers Companies.

We have been producing hyperbaric chambers for both domestic and international customers since 2008.

OXYTECH

We are able to produce chambers with many optional features, working up to 10 bar working pressure, multi person - single person, single compartment - double compartment, lying and sitting, manually controlled and automatically controlled, round - rectangular - omega cross-sections.

Oxytech produces:

- Multiplace and Monoplace Medical Hyperbaric Oxygen Therapy Chambers
- Divers Decompression Chambers and Transportable Divers Chambers
- Welness Chambers
- Equine and Animal Chambers
- Oxygen Concentrator
- Air Compressor
- Hyperbaric Software
- Other Hyperbaric related equipments

All chambers are manufactured per applicable international standards and specificiations, such as

- ASME PVHO-1 (Safety Standard for Pressure Vessels for Human Occupancy)
- EN 14931 (Pressure vessels for human occupancy)
- 2014/68/EU former 97/23/EC (PED Pressured Equipment Directive)
- ASME SEC VII D.1. (ASME Boiler and Pressure Vessel Code)
- MDD Medical Device Directive
- NFPA 99 (Health Care Facilities Code)

We carry out our manufacturing in two different factories in Izmit-Kocaeli province. Our production system is ISO 9001 and ISO 13485 Medical Device Production certified. Additionally, our products have CE certificates.

Our aim is to work as a contract manufacturer for hyperbaric chamber manufacturers around the world.

We produce your own designed chambers at the most competitive prices, with high quality and on-time delivery philosophy.

We have our own model Hyperbaric chamber designs.

We design and manufacture oxygen concentrator and air compressor as additional products suitable for the hyperbaric sector.

We also have Hyperbaric Control and Management Software created by our team for hyperbaric chambers.



















DESIGN& MANUFACTURING

SUBMERGED ARC WELDING (Lineer and circular parts using column boom and Welding stations) (SAW) METAL ARC WELDING (MIG & MAG) (GMAW) TIG WELDING (Tungstan Inert Gas Welding)(TIG/GTAW) ELECTRODE WELDING (MMA /SMAW)

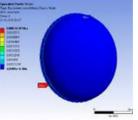
SPECIAL WELDING TESTS

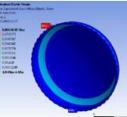
RADIOGRAPHIC TEST ULTRASONIC TEST DYE PENETRANT TEST MAGNETIC PARTICLE TEST VISUAL TEST

DESIGN TOOLS

Autocad Inventor Intergraph PV Elite ANSYS CFD Flow/Mnf 15.0 ANSYS Design Modeler 15.0





















Decompression chambers serve as a tool for divers to adjust their bodies to normal surface pressure without the risk of long underwater decompression. Recompression chambers are used to treat divers for diving disorders, or when they develop decompression sickness.

Oxytech standard decompression chambers come with two compartments, the main lock and entry lock. Oxytech manufactures the following fully equipped Diving Chambers.

- Diver Decompression Chambers
- Containerized Diving Chambers
- Transportable Diving Chambers
- Adaptor
- Diving Panel









1250 mm 1500 mm

1800 mm

2000 mm





FEATURES

Medical Grade Compression Gas System

Communication System

Video Monitoring System

Video Recording

Viewports

Medical Lock

O₂ & CO₂ Gas Analyzers

O₂ & CO₂ Monitoring

Air Conditioner

Oxygen Mask & Hood

Hyperbaric Lights

CO₂ Scrubber

Temperature & Humidity Sensors

Hyperbaric Fire Extinguishers

Oxygen Storage Cylinders

High Pressure Air Storage Cylinders

High Pressure Air Compressor

Spare Penetrators

Pressure Gauges

Caisson Gauges

Benching/Seating/Stecther

SPECIFICATIONS

Working Pressure: 2.0 - 10.0 bar

Main Chamber Human Capacity: 4 - 20 patients

Paint: Non-Toxic Water Resistant

Material: Pressure Vessel Steel, Stainless Steel, Aluminium Standards: EN 14931, ASME PVHO-1, 2014/68/EU, 97/23/EC, ASME SEC VII Division.1, EN 93/42 EEC,

IMCA D Series















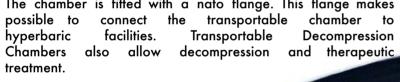




CHAMBERS

Diver attendant transportable decompression chambers are suitable for transferring divers under pressure to a hyperbaric medical facility. The system is capable of being transported to remote locations where diving operations or emergency rescue activities are to be carried out. It is capable of an operating depth equivalent to 70 meters.

The chamber is fitted with a nato flange. This flange makes possible to connect the transportable chamber to Transportable hyperbaric facilities.





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Hyperbaric Fire Extinguishers

Oxygen Storage Cylinders

High Pressure Air Storage Cylinders

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Caisson Gauge

Benching/Seating/Stretcher

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D Series





























Description of Hyperbaric Oxygen Therapy:

Hyperbaric Oxygen Therapy (HBOT) is the administration of pure oxygen at pressures greater than normal atmospheric pressure to a patient inside a hyperbaric chamber for therapeutic reasons.

This treatment is performed in pressure chambers of various sizes, ranging from monoplace chambers for one patient only, to multiplace or multi-compartment treatment chambers in which several patients can sit and where hospital beds or even an entire intensive care setting can be installed and where health workers can attend to the patients.

This therapy has been available for several decades and is used for many indications. It is typically administered at 1 to 3 atm. for 90 to 120 minutes. HBOT appears to be quite safe and the occasional adverse effects are mainly mild and reversible although they could, potentially, be severe and life threatening. State of the art installation and maintenance and adequate staffing is therefore of paramount importance.

Clinical Effectivenes:

HBOT has been used for many medical conditions. HBOT has become accepted standard therapy in a few life threatening conditions i.e. decompression illness and gas embolism; mainly based on historical empirical evidence.

We manufacture various type of HBOT Chambers.

The Omega is a classic shaped chamber and we also have a Rectangular type, both provide more space and less claustrophobic feeling for the patients during the therapy.

Triple Lock	Rectangular Shape
Double Lock	Omega Shape
Single Lock	Round Shape

Indications accepted by either the European or the North American Hyperbaric Medical Societies; the European Committee for Hyperbaric Medicine (ECHM, www.echm.org) and the Undersea and Hyperbaric Society' (UHMS, www.uhms.org):

Air or Gas Embolism

Carbon Monoxide Poisonina

Clostridial Myositis and Myonecrosis (Gas Gangrene)

Crush Injury, Compatement Syndrome and Other Acute

Traumatic Ischemias

Decompression Sickness

Arterial Insufficiencies

Severe Anemia

Intracranial Abscess

Necrotizing Soft Tissue Infections

Osteomyelitis (Refractory)

Delayed Radiation Injury (Soft Tissue and Bony Necrosis)

Compromised Grafts and Flaps

Acute Thermal Burn Injury

Idiopathic Sudden Sensorineural Hearing Loss

Enhancement of Healing in Selected Problem Wounds

Post-anoxic encephalopathy

Ophtalmological Disorders

Neuroblastoma Stage IV

Diabetes

Brain Stroke

Autism

Pneumatosis Cystoides Intestinalis

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Oxygen Storage Cylinders

High Pressure Air Storage Cylinders

High Pressure Air Compressor

Spare Penetrators

Pressure Gauge

Caisson Gauge

Benching/Seating/Stretcher

Used also For Monoplace Chamber

SPECIFICATIONS (MULTIPLACE)

Working Pressure: 3 ATA - 6.5 ATA (2 bar - 5.5 bar)

Main Chamber Human Capacity: 4 - 16 patients

Entry Chamber Patient Cap.: 2-4 patients Dimensions (Sigma): 7500 x 2300mm Dimensions (Rectangular): 6700 x 2300mm

Material: PressureVessel Steel

Number of Doors: 3

Rectangular Doors: 800x1800mm

Viewports: Ø300mm

Standards: EN 14931, ASME PVHO-1, 2014/68/EU, 97/23/EC, ASME SEC VII Division.1, EN 93/42 EEC

SPECIFICATIONS (MONOPLACE)

Working Pressure: 2.0 ATA - 4 ATA (1 bar - 3 bar)

Semi Acrylic, Full Acrylic Chamber Capacity: 1 patient

Dimensions: Ø900 - 1000 x (L) 2400mm

Material: Steel and Acrylic

Standards: EN 14931, ASME PVHO-1, 2014/68/EU, 97/23/

EC, ASME SEC VII Division.1, EN 93/42 EEC



















Oxygen treatment under pressure reduces swelling, stimulates healing, reduces inflammation and increases the body's ability to deliver antibiotics to areas of relatively poor blood supply.

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Oxygen Storage Cylinders

High Pressure Air Storage Cylinders

High Pressure Air Compressor

SPECIFICATIONS

Working Pressure: 3.0 ATA (2.0 bar) Chamber Capacity: 1 or 2 Animals Paint: Non-Toxic Water Resistant Material: Pressure Vessel Steel

Standards: EN 14931, ASME PVHO-1, 2014/68/EU,

97/23/EC, ASME SEC VII Division.1,

EQUINE&ANIMAL CHAMBERS

Our chambers are used in Veterinary clinics, Veterinary colleges, Equine rehabilitation clinics, Private horse farms.

During hyperbaric therapy your horse breathes 100% oxygen at 2-3 times atmospheric pressure for approximately one hour. Breathing oxygen under pressure increases the amount of oxygen in the lungs and carried to the tissues of the body. Oxygen treatment under pressure reduces swelling, stimulates healing, reduces inflammation and increases the body's ability to deliver antibiotics to areas of relatively poor blood supply.

HBOT has proven useful, in wound treatment, cellulitis, skin, muscle tendon and ligament injuries, aerobic and anaerobic infections, osteomyelitis, head and spinal injuries, chronic infections, dummy foal syndrome, lung or abdominal abscesses, colic, sinus infections, lyme's discase, intestinal ischemia and reperfusion injury, laminitis and exercise-induced pulmonary hemorrhage.

Our Hyperbaric Chamber is a spacious, open room design that allows the horse to relax and move comfortably during the treatment. Throughout the treatment period your horse is carefully monitored by trained staff using video monitoring and direct observation through acrylic portals in the side of the chamber.

























Hyperbaric oxygen therapy (HBOT) has garnered attention and interest due to its potential therapeutic benefits across a range of medical conditions. The "secret" of HBOT lies in its ability to utilize increased atmospheric pressure and pure oxygen to enhance the body's natural healing processes. Here's a deeper look into the secrets and mechanisms of HBOT

Oxygen Under Pressure

HBOT involves breathing pure oxygen in a pressurized chamber, which allows for a significantly higher concentration of oxygen to dissolve in the blood plasma. This increased oxygen availability can enhance cellular metabolism, promote tissue repair, and support immune function

Anti-inflammatory Effects

HBOT has been shown to reduce inflammation by modulating inflammatory pathways and reducing the release of pro-inflammatory molecules. This can be beneficial for conditions characterized by excessive inflammation, such as certain types of wounds, infections, and autoimmune diseases

Angiogenesis and Tissue Repair

The increased oxygen levels delivered during HBOT can stimulate the formation of new blood vessels (angiogenesis) and promote tissue regeneration. This can accelerate wound healing, improve tissue oxygenation in ischemic conditions, and support the recovery of damaged tissues

Antimicrobial Activity

High levels of oxygen can exhibit direct antimicrobial effects by inhibiting the growth and survival of certain bacteria, fungi, and viruses. HBOT can be used as an adjunctive treatment for infections that are resistant to conventional therapies or to enhance the effectiveness of antibiotics and other antimicrobial agents.

Neuroprotective and Neuromodulatory Effects

HBOT has shown promise in supporting neurological function and recovery. It can enhance oxygen delivery to the brain, promote neuroplasticity, and modulate neurotransmitter activity, which may be beneficial for conditions like traumatic brain injuries, stroke, and certain neurodegenerative disorders.

Oxygenation and Revitalization:

HBOT can increase oxygen delivery to hypoxic (low-oxygen) tissues, improving cellular respiration and energy production. This can boost overall vitality, energy levels, and cognitive function, leading to a sense of rejuvenation and well-being.







OXYTEC

HYPERBARIC DEVICES



HYPERBARIC AIR COMPRESSOR
Model: OXYair
9.0 ATA
200 - 1200 LPM
OIL FREE & SILENT

Partmakers compressors are designed for highest performance and especially for Hyperbaric Oxygen
Therapy Chambers, highly efficient, Latest technology innovative, and distinctive features like
uninterrupted working system, low noise production ability, high performance level, easy transportation.

SPECIFICATION		CERTIFICATES
Capacity	200 LPM	2006/42/EC
Pressure	9.0 ATA	2014/35/EU
Reservoir Tank	35 Liter	2014/30/EU
Power	2 HP	2014/68/EU
Electricty Consumption	1.5 Watt/Hour	ISO 13485
Power Supply	220 Volt, 50 Hz	ISO 9001
Size LxWxH (cm)	45x87x88	
Weight	40 kg	
Noise Level	< 60 db	



HYPERBARIC DEVICES



HYPERBARIC OXYGEN GENERATOR
Model: Oxy Two
6.2 ATA
20 LPM
93% Oxygen PURITY

Partmakers Concentrators are highly efficient, Latest technology innovative oxygen concentrator, designed for highest performance and distinctive features like uninterrupted working system, low noise production ability, high performance level, easy transportation

SPECIFICATION		CERTIFICATES
Capacity	20 LPM	2006/42/EC
Pressure	6.2 ATA	2014/35/EU
Reservoir Tank	18 Liter	2014/30/EU
Power	3 HP	2014/68/EU
ElectrictyConsumption	1.5 Watt/Hour	93/42/EEC
PowerSupply	220 Volt, 50 Hz	ISO 13485
Size LxWxH (cm)	100x130x120	ISO 9001
Weight	70 kg	
Noise Level	< 60db	



CERTIFICATIONS



















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