

# HYPERBARIC OXYGEN

## TREATMENT

Hyperbaric Oxygen Therapy (HBOT) is a medical technology in which we breathe pure oxygen in a chamber with increased atmospheric pressure (3 times higher than normal pressure) to naturally heal our body.

We design, manufacture and deliver Medical or Non-Medical, single, multiple and submersible hyperbaric chambers in industries such as medicine, entertainment and diving. All our industry solutions are presented to the customer in a state-of-the-art way. All our products are possible

as innovative, sustainable and most integrated as possible.

- Special Design Preferences for You
- Manufactured with the Latest HBOT Technology
- With Medical and Non-Medical Options
- Indoor and Outdoor Unit Automation System
- Oxygen Breathing with BIBS Mask
- Double Layer Safety Mechanism
- Powerful Cooling System
- Sealed Door Structure
- Fireproof Interior Coating Material
- Portable Modular Manufacturing

# hpo tech

## Health in Every Breath



HPOTECH MEDIKAL MEDICAL SOLUTIONS BRAZIL

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## HYPERBARIC OXYGEN CABINS

HEALTH WITH EVERY BREATH

### Medical Non Medical Oxygen Treatment Cabins Brochure





## **1. MEDICAL HYPERBARIC CABINETS / Multiple, Single, Submersible Type**



# MEDICAL HYPERBARIC CABINETS / Multiple, Single, Submersible Type



## 1. CKBO—MULTI-PERSONAL HYBERBARIC CAB

- CKBO MANUAL (M)
- CKBO AUTO (O)
- CKBO HIGH PRESSURE (YB)

Multi-person Medical Oxygen cabin is the most preferred product. It can be designed for 4,6,8,10,12,14,16 and 18 people.

At the service of the customer with different design and color options is presented.

The product can be produced in 3 basic categories in terms of its features. Manual, automatic and High pressure types are created by adding the features given in the table.

CKBO type products have fire extinguishing systems in accordance with NFPA Standards. The product is with Medical CE certificate is produced.



MOST SECTIONS		FEATURES	CKBO	
			PIECE/LENGTH	MANUAL/AUTO/HIGH PRESSURE
				(M/O/YB)
MOST 13445	BODY	Patient Capacity	12	M/O/YB
		Entry Room Patient Capacity	2	M/O/YB
		Cabin Diameter	2300mm	M/O/YB
		Main Room Length	1400mm	M/O/YB
		Entrance Room Length	4390mm	M/O/YB
		Total Cabin Length	6000mm	M/O/YB
		Medical Door - Diameter:300mm	--	M/O/YB
		porthole	13	M/O/YB
		Camera Porthole	10	M/O/YB
		Regulator	14	M/O/YB
		Camera	10	M/O/YB
		Television	6	M/O/YB
		Entertainment System	--	M/O/YB
		CO2 Scavenger	2	M/O/YB
MOST 14931	CONTROL PANEL	Depth Indicator_165 FSW	2	M/O/YB
		Oxygen Analyzer	2	M/O/YB
		flowmeter_50CC	2	M/O/YB
		Valve_11/2"	4	M/O/YB
		Fire System Manometer	2	M/O/YB
		Oxygen & Air & BIBS Manometer	3	M/O/YB
MOST 14931	OTOMAS WAY PANEL	Automation Program	-	O/YB
		Intercom /Communication	--	M/O/YB
		Fire Fighting Activation	--	M/O/YB
		Patient Alarm System	--	M/O/YB
		Oxygen&Air&Humidity Display	--	M/O/YB
		Camera Monitor	--	M/O/YB
NFPA 99	FIRE EXTINGUISHING SYSTEM	1000LT Pressure Water Tank	--	M/O/YB
		300 LT Pressure Water Tank	--	M/O/YB
		Nitrogen Tube	3	M/O/YB
		Regulator	3	M/O/YB
		Smoke detector	2	M/O/YB
		Flame Detector	2	M/O/YB
		Fire Extinguisher Panel	--	M/O/YB
		Manual Control System	2	M/O/YB
		springs	30	M/O/YB
EN12021	LP AIR RECRUITMENT	Galvanized 1000LT Compressed Air tank	4	M/O/YB
		LP Compressor	2	M/O/YB
		Dryer	2	M/O/YB
		Air filter	4	M/O/YB
		Automatic Drain	--	M/O/YB
EN12021	HIGH PRESSURE SYSTEM	Air Stock Tube	16	YB
		HP Compressor	--	YB
		HP-LP_Regulator	--	YB



# MEDICAL HYPERBARIC CABINETS / Multiple, Single, Submersible Type



## 2. TKBO—SINGLE HYBERBARIC CAB

- TKBO MANUAL (M)
- TKBO AUTO (O)

Single-person hyperbaric cabins are produced with full acrylic. The patient is in full contact with the external environment. Only 1 patient can be treated in such cabins.

Single-person oxygen cabins can preferably be produced manually or automatically. It is offered to the customer in different designs with the desired color option.

Medical device attachments or attachment apparatuses can be mounted to the cabinet if desired.

TKBO type products have fire extinguishing systems in accordance with NFPA Standards. The product is with Medical CE certificate is produced.



MOST SECTIONS		FEATURES	TKBO	
			PIECE/LENGTH	MANUAL/AUTOMATIC
				B.C
EN 13445 BODY		Acrylic Length	800mm	B.
		Cabin Length	2300mm	C
		Medical Door - Diameter:300mm	-	B. C
		Porthole (2000mm FULL ACRYLIC)	-	B.
		Port Camera	-	C
		Regulator	-	B.C
		Camera	-	B.C
		Television	-	B.C
		Entertainment System	-	B.C
		CO2 Scavenger	-	B.C
EN 14931	CONTROL PANEL	Depth Indicator_165 FSW	-	YES
		Oxygen Analyzer	-	YES
		flowmeter_50CC	-	YES
		valve_1"	-	YES
		Fire System Manometer	-	YES
		Oxygen & Air & BIBS Manometer	-	YES
EN 14931	OTOMAS WAY PANEL	Automation Program	-	HE
		Intercom/Communication	-	B.C
		Fire Fighting Activation	-	B.C
		Patient Alarm System	-	B.C
		Oxygen&Air&Humidity Display	-	B.C
		Camera Monitor	-	B.C
NFPA 99	FIRE EXTINGUISHING SYSTEM	1000LT Pressure Water Tank	-	-
		300 LT Pressure Water Tank	-	-
		Nitrogen Tube	-	-
		Regulator	-	-
		Smoke detector	-	-
		Flame Detector	-	-
		Fire Extinguisher Panel	-	-
		Manual Control System	-	-
		springs	3	-
EN12021	LP AIR RECRUITMENT	Galvanized 1000LT Compressed Air tank	-	B.C
		LP Compressor	-	B.C
		Dryer	-	B.C
		Air filter	4	B.C
		Automatic Drain	-	B.C



# MEDICAL HYPERBARIC CABINETS / Multiple, Single, Submersible Type



## 3. DBO—DIVER TYPE HYBERBARIC CABINET

- DBO
- DBO\_T (Portable)
- DBO\_K (With Container)

HPOTECH decompression chambers are high quality commercial double lock chambers designed for operators who require a higher specification standard. They meet most international industry practices and guidelines.

HPOTECH decompression chambers are currently available in two different diameters, 1.5m and 1.7m. Build quality and quality are of a very high standard, and stainless steel is widely used for pressure vessel components and control panels. A wide range of optional equipment is available to allow the system to be custom designed to suit any application.

- Containerization
- Rotating NATO TUP flange
- Mixed gas BIBS
- Hyperbaric fire extinction options option
- CO2 scrubbers
- Hyperbaric chamber lighting selection
- CO2 atmosphere monitoring systems
- Patient ventilators, HBO hoods

EN	SECTIONS	FEATURES	DBO
			PIECE/LENGTH
EN 13445	BODY	Cabin Patient Capacity	4
		Entry Room Patient Capacity	2
		Cabin Diameter	1500mm
		Main Cabin Length	2275mm
		Entrance Cabinet Length	966mm
		Total Cabin Length	3500mm
		NATO Flansh	-
		Medical Door - Diameter:220mm porthole	5
		Port Camera	5
		Regulator - BIBS	6
		Camera	5
		Primary Communications-Speaker&Ambient Mic	2
		Secondary Communications-SP Telephone Tertiary	2
		Communications - Hummer	2
		Fan Coil (Climate) & Chiller (Hot & Cold)	-
		Back Pressure Regulator	2
		Lighting - LED	2
		Fire extinguisher	2
		CO2 trap	2
		EN 14931	CONTROL PANEL
Oxygen & Air & BIBS Manometer	3		
Oxygen Analyzer	2		
Carbon Dioxide Analyzer	2		
Flowmeter _100 cc	2		
Control Valve 1"	14		
Fire System Manometer	2		
Automation Program	-		
Primary Communications-Speaker&Ambient Mic	-		
Secondary Communications-SP Telephone Tertiary	-		
Communications - Hummer	-		
Fire Fighting Activation	-		
Lighting Control	-		
Patient Alarm System	-		
Oxygen&Air&Humidity Display	-		
Camera Screen	-		
NFPA 99	FIRE EXTINGUISHING SYSTEM	500 LT Pressure Water Tank	0
		100 LT Pressurized Water Tank	0
		Nitrogen Tube	0
		Regulator	0
		Smoke detector	0
		Flame Detector	0
		Fire Extinguisher Panel	0
		Fire Extinguisher Nozzle	0
EN12021	AIR SUPPLY	HP Air Stock	8x1
		HP Compressor	-
		HP Air Filter	-
		HP-LP Regulator	-
		Connection Hose	-
EN 14931	TREATMENT GASES	Distribution Panel	0
		Oxygen Tank	0
		Nitrogen Tank	0
		heliox	0
		Connection Hose	0
		40 Ft Standard Container	0
TS ISO 1496-1	CONTAINER	Gas Control Panel	0
		Lighting - LED	0
		Heating	0
			0



## **2. NON- MEDICAL HYPERBARIC CABINETS / Multiple, Single**



# NON MEDICAL HYPERBARIC CABINETS / Multiple, Single

MONOPALCE-SINGLE
WORKING PRESSURE 1.5 ATA
SAFETY VALVE
CABIN DIAMETER: 900 mm
SLIDING DOOR
TEMPERATURE SENSOR
PRESSURE SENSOR
IN-CABIN COMMUNICATION
EMERGENCY - INSIDE
EMERGENCY—OUTSIDE
CONTROL PANEL—INTERNAL
CONTROL PANEL—OUTSIDE
LED LAMP
<small>AIR CONDITIONING—INDOOR</small>
BED AND PILLOW
COMPRESSOR
ADDITIONAL EQUIPMENT
CONTROL PANEL—OUTSIDE
EXTERNAL CABIN COMMUNICATIONS
WATER COOLING UNIT
UVC STERILIZATION
OXYGEN GENERATOR-10LPM
BIBS REGULATOR X 1PCS
TV : 24" SMART TV

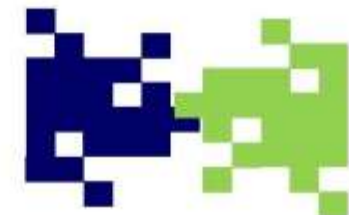
MULTIPALCE-MULTIPLE
WORKING PRESSURE 1.5 ATA
SAFETY VALVE
CABIN DIAMETER : 1800 mm
SLIDING DOOR
TEMPERATURE SENSOR
PRESSURE SENSOR
IN-CABIN COMMUNICATION
EMERGENCY - INSIDE
EMERGENCY—OUTSIDE
CONTROL PANEL—INTERNAL
CONTROL PANEL—OUTSIDE
SEATS
<small>AIR CONDITIONING—INDOOR</small>
BED AND PILLOW
COMPRESSOR
ADDITIONAL EQUIPMENT
CONTROL PANEL—OUTSIDE
EXTERNAL CABIN COMMUNICATIONS
WATER COOLING UNIT
UVC STERILIZATION
BIBS REGULATOR X 1PCS

- Manufactured with the Latest HBOT Technology
- Ability to hear, see and monitor the patient at all times
- Easily Portable, Wheeled
- Digital and Manual Control Systems
- Powerful Cooling System
- Anti-bacterial Indoor
- Sealed Door Structure
- Double Layer Pressure Relief Mechanism
- Oxygen Breathing with BIBS Mask
- Patient and operator emergency depressurization System
- Quiet operation
- Automatic pressure reduction in case of power failure

## NTKBO



## NCKBO





BETTER CONDITION, FASTER REGENERATION



RELIEVE HEADACHES



A PERFECT SLEEP



FORGET YOUR TIRED



REFRESH YOUR SKIN, LOOK BEAUTIFUL EVERY MOMENT



HEAL YOUR WOUNDS QUICKLY



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Health in Every Breath





**IT PROVIDES TREATMENT OF CHRONIC DISEASES BY Stimulating STEM CELLS**

**QUICKLY HEALS WOUNDS FROM DIABETES**

**HELPS PREVENT HEART AND NEUROLOGICAL DISEASES**

**IMPROVES SUDDEN LOSS OF HEARING AND VISION**

**HEALS DRUG AND FOOD POISONING**

**ACCELERATES HEALING IN BURNS TREATMENT**

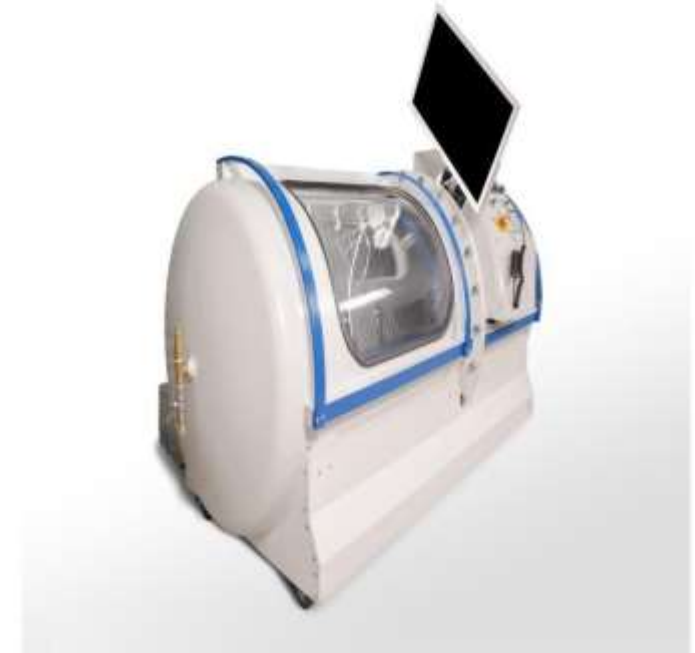
**PROVIDES IMMEDIATE HEALING OF TRAMVATHIC INJURIES**

**QUICKLY HEALS CO AND CYANIDE POISONINGS**

**HEALS BONE Marrow Inflammations**

**PROVIDES ANTIMICROBIAL EFFECT**

**PREVENT ULCER, GASTIRIT AND COLIDIA**



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**HOTELS AND SPA CENTERS**



**FITNESS ROOMS**



**SPORTS SCHOOLS**



**BEAUTY SALON**



**PHYSICAL THERAPY CENTERS**



**BURN CENTERS**



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**HAIR TRANSPLANT CENTERS**



**DIETICIANS**



**PRIVATE CLINICS**



**WOUND TREATMENT CENTERS**



**BATH AND SAUNA**



**HOMES AND WORKPLACES**



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**Health in Every Breath**

Hpotech Hiberbaric Chambers are designed and manufactured in European Standards by expert engineers using high quality components, after careful evaluation and quality testing.

A place that meets the expectations of our customers and enables them to reach optimum health.



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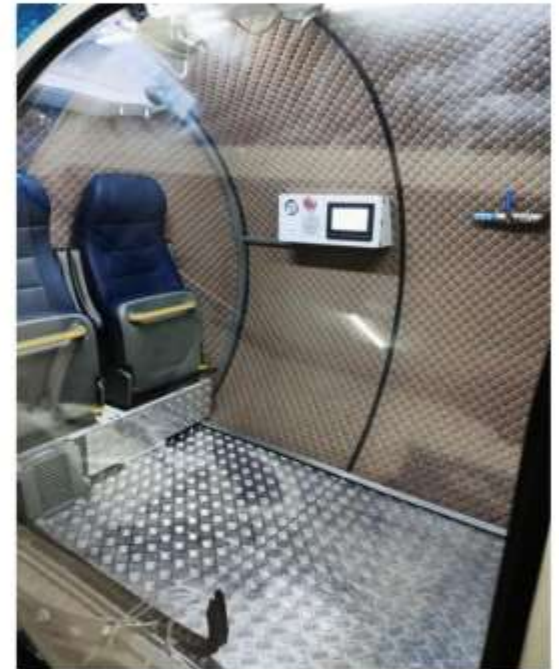


**FAST TREATMENT OF SPORTS INJURY**

**REDUCING THE RISK OF REINJURY**

**Sudden trolleys in contact sports**

**INCREASING ATHLETIC PERFORMANCE**



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# In professional sports, Hyperbaric Oxygen Therapy (HBOT) has become one of the most effective methods for the recovery of athletes.

## Major Injuries

*serious contusions*

*deep wounds*

*cartilage damage*

*fractures*

*compartment syndrome tissue damage*

## Light Abrasions

*Sprain*

*Strains*

*interruptions*

*contusions*

*Simple fractures*



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## UPGRADE YOUR OXYGEN LEVEL FOR MORE EFFICIENT EXERCISES



### HEALTHIER COMPETITION

Inside a hyperbaric chamber, at higher atmospheric pressure, supplementation of oxygen uptake is known to naturally speed up recovery times to treat sports injuries, allowing injured athletes to recover faster and reduce the risk of re-injury.

Sports are mobile and injuries cause minor or major trauma to the body, directly or indirectly, as a result of impact forces in contact sports , during play or during very strenuous training sessions .

**HIGH OXYGEN LEVELS  
CONTRIBUTE TO INCREASED  
PERFORMANCE.**



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## HYPERBARIC OXYGEN THERAPY WILL HELP ATHLETES

- Reduce local hypoxia (oxygen deficiency at tissue level)
- Reduce local inflammation and edema
- Reduce scar tissue formation

- Increase the oxygen density of injured areas
- Renew bone and cartilage faster
- Increase stem cell activation

TO REACH HIGH LEVELS OF PERFORMANCE  
A VITAL INVESTMENT



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**WOUNDS NEED OXYGEN TO HEAL NATURALLY. HYPERBARIC OXYGEN THERAPY IS SUCCESSFULLY USED AS A COMPLEMENTARY THERAPY FOR WOUND HEALING**



Oxygen plays a vital role in wound healing. Wounds need oxygen to heal naturally, and hyperbaric oxygen therapy has been used successfully as a complementary therapy for wound healing. Given the increasing research into the benefits of HBOT for various types of wounds, oxygen therapy may be considered an important part of the medical strategy to accelerate the healing and healing process.

**Thermal burns and wound management**

Healing and closing a burn wound is the primary concern of a therapist dealing with burn wound patients. The primary effect of thermal burns is destruction of the skin and deterioration of musculoskeletal capacity, depending on the severity of the burn. The positive effects of Hyperbaric Oxygen Therapy have been documented as follows:

- Reduces edema formation after burns due to hyperoxic vasoconstriction
- Promotes neoangiogenesis, the formation of new blood vessels
- Increases the number of regenerative active follicles



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**OXYGEN THERAPY USED FOR AESTHETIC CONCERNS IS AN INCREASING TECHNOLOGY.**

**INCREASES THE BRIGHTNESS OF THE SKIN**

**BLACKS AND WRINKLES ON THE SKIN ARE SHOWN**

**COLOGEN SYNTHESIS AND TISSUE REGENERATION INCREASE**

**TOXICITY REDUCES, NATURAL DETOX INCREASES**



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**DR. OTTO WARBURG , NOBEL PRIZE IN MEDICINE (1931)**

**THE PRIMARY CAUSE OF ALL DEGENERATIVE DISEASES IS A CONDITION, NAMED HYPOXIA, WITH OXYGEN DEFICIENCY AT THE CELL LEVEL.**

**REVIEW THE NATURAL HEALING PROCESS AND IMMUNITY**

**BOOST VITALITY, INCREASE CONCENTRATION AND MEMORY**

**REDUCE FACILIATION AND INCREASE ENERGY LEVELS, ENDURANCE**

**HELP CELL REJUVENATION AND ANTI-AGING STRATEGIES**

**REMOVE THE FEEL OF BRAIN FOG AND JET LAG**

**BATTLE INFECTIONS, REMOVE TOXINS AND SPILLS**



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