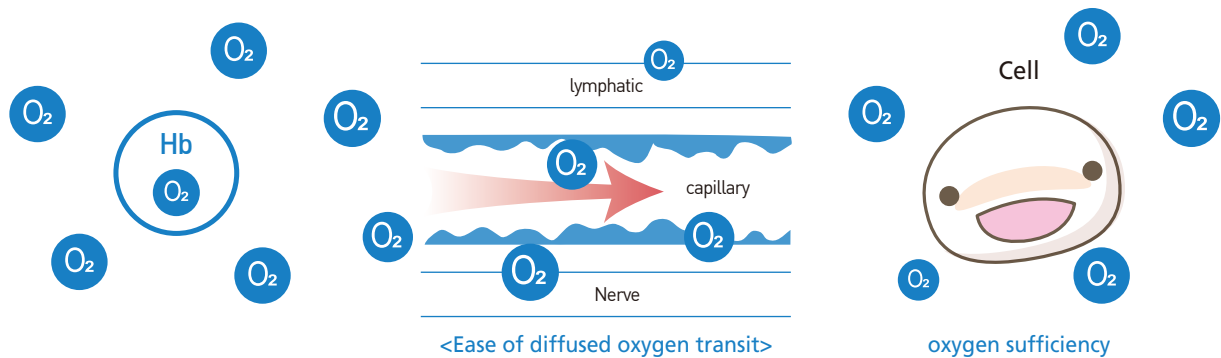


## + Hyper baric Oxygen Therapy

- If the atmospheric pressure of oxygen is high, oxygen will not only readily bind with hemoglobin in red blood cells, the content of dissolved oxygen will be increased, transport across capillary walls will be efficient, free movement into the smallest areas of the circulatory system will become easier, and cellular activity will also be increased.



- In hyper baric oxygen therapy, purified oxygen is inhaled under high atmospheric conditions, increasing oxygen concentration within the body, and alleviating the effects of oxygen deficiency.

## + Principles of hyper baric oxygen therapy

### 1. Pressure effect

Under high pressure, the size of gas bubbles in blood or other liquids is decreased, which helps to halt the effects of disease, and corrects inflation of the abdomen due to gas accumulation.

### 2. Effect of increased PO<sub>2</sub>

According to Henry's Law, if partial pressure increases in the environment, the amount of dissolved oxygen in blood plasma increases. The partial pressure in the cerebrum, the greatest consumer of oxygen of all the body's organs, is 5-6 cc, and at 100% oxygen, 3 atm pressure, the amount of dissolved oxygen is sufficient to fulfill structural cells' consumption rate and can instantly relieve conditions of oxygen deficiency.

### 3. Pharmacological effect

- Enhancement of granulation.
- Enhancement of neovascularization.
- Increases phagocytic activity of multi-nuclear leukocytes, thus improving wound recovery.

### 4. Physiological effects of hyper baric oxygen therapy

- Increased supply of oxygen: At an atmospheric pressure of 2.5 atm, increases oxygen transport by 10-15 times and alleviates blockages to microcirculation.
- Blood vessel constriction: At 2.5 atm reduces arterial blood flow by 20% and assists in edema reduction and lymph expulsion.
- Controls aerobic and anaerobic bacteria activity.
- By treating oxygen deficiency, also increases collagen formation.

## + Typical fields in which hyper baric oxygen therapy is applied

- **Cosmetic surgery / orthopedics / rehabilitation** Edema reduction (finger reconstruction surgery), cell regeneration after microsurgery, treatment of muscular or skeletal damage
- **Internal medicine** Chronic asthmatic bronchitis, acute exogenous pneumonia poisoning (carbon monoxide poisoning, gas poisoning in the case of fire), aftereffects of stroke, cerebral hemorrhage, cerebral infarction, hardening of arteries, diabetes, ischemia, heart disease, etc.
- **Neurosurgery / neurology** Senile dementia, apoplexy, paralysis, neurosis, autism, schizophrenia, headaches, migraines, etc.
- **Surgery** Infection from external injury, acute soft tissue damage, ulcer, burns, wounds, skeletal problems, etc.
- **Dermatology** Acne, herpes simplex, herpes zoster, pattern hair loss, beautification, etc.
- **Ophthalmology** Diabetic retinitis, corneitis, etc.
- **Other** The bends (from diving), improving athletic performance (currently used by countless well-known athletes), stress alleviation and recovery from fatigue, improving mental activity and ability to focus, promoting metabolism and blood flow.

### + O<sub>2</sub>ONE-H750 / H-810

Devised, developed and produced by Mediconet.  
Outstanding features count most in convenience, practical functions and safety.

### + OXYSYS 4000 / 4500

Devised, developed and produced by Mediconet.  
Outstanding features count most in convenience, practical functions and safety.

### + M 4000 / 4500

Devised, developed and produced by Mediconet.  
Outstanding features count most in convenience, practical functions and safety.

### + Pet Chamber

Hyperbaric Oxygen Therapy is one fo the effective and efficient tool in healing animals. It also improves metabolism, aging and stress problem. From the canine athlete to the family pet, the possibilities for this treatment modality are endless.



MEDICONET is a global hyper baric oxygen chamber manufacturer and exporter providing hard hyper baric oxygen chambers and portable mild hyper baric chambers using HBOT(hyper baric oxygen therapy) treatment.

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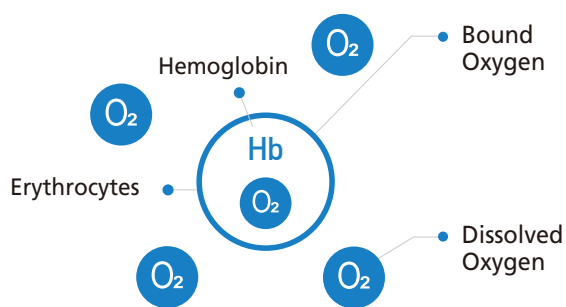
**H Y P E R   B A R I C   O X Y G E N   T H E R A P Y**

**MEDI conet**

# Just what is hyper baric oxygen therapy?

## Bound oxygen vs. Dissolved oxygen

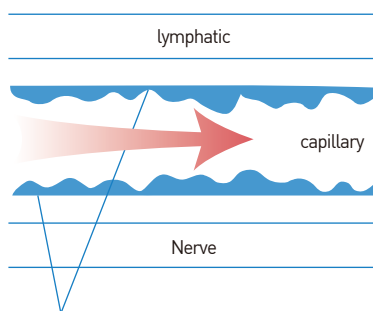
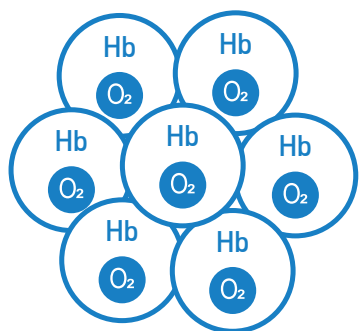
- There are two types of oxygen in the body—oxygen which is bound to hemoglobin and oxygen which is dissolved freely in the blood. Normal respiration only involves transport of oxygen which is bound to hemoglobin. However, because hemoglobin is larger than the size of most capillaries in such vital organs as the lungs, kidneys, liver, and skin, hemoglobin-bound oxygen transport is not sufficient to attain full-body blood circulation.



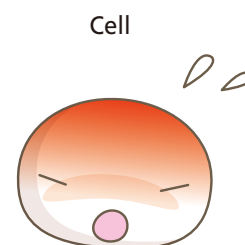
- Bound to hemoglobin in the blood.
- Cannot be transported in a greater amount than that of hemoglobin itself.
- Hemoglobin is a large molecule that has difficulty passing through capillary walls. (cannot pass through about 90% of capillaries in the body)
- About 99% of oxygen in the body is bound to hemoglobin.

- The body cannot get sufficient oxygen through normal respiration. (increased inhalation cannot solve this deficiency)
- Because oxygen is a small molecule, if it is dissolved in the blood, it can easily pass through capillary walls.
- Amount of dissolved oxygen in the blood does not depend on amount of hemoglobin.

- Further more, poor diet, lack of exercise, and other such lifestyle factors lead to cholesterol accumulation in the blood, attachment of debris to red blood vessels, and blood vessel blockage, further hindering proper blood circulation in the body. Ultimately, the deficiency of oxygen due to the combination of such factors leads to accelerated aging and the onset of a multitude of diseases.



Accumulation of cholesterol and other pollutants  
<Inhibits transport of bound oxygen>



Hypoxia

## O2ONE SERIES

# O<sub>2</sub>ONE-H750 / H-810



### + Features

- Slide type entry door.
- Emergency button to release pressure in emergency.
- Intercom for two-way communications inside and outside the chamber.
- Wide and convenient transparent viewing window.
- Automatic air pressure control system.
- Air conditioner to reduce the of high pressure oxygen.
- Adjustable timer for therapy.



### + Specifications

Model		O2ONE - H750	O2ONE - H810
Chamber	usage	one patient(Child, Female)	one patient(Male)
	material	Aluminum	
	size / weight	225cm x Ø75cm, 70kg	225cm x Ø81cm, 75kg
	normal pressure	1.1 ~ 1.5ATM(1.0~1.5ATM)	
Oxygen Generator	fluid volume	5 Liters / min	
	purity	90%±5%	
	power consumption	220VAC±10%, 60Hz, 500VA	
	size / weight	W550cm x H500cm x D240cm, 30kg	
System	fluid volume	85 Liter / min	
	specification	DualHeadOil-less	
	air filter	Dual	
	power consumption	220VAC±10%, 60Hz, 720VA	
	size / weight	W530cm x H1075cm x D455cm, 110kg	
Remote Controller		W8.9cm x D2.6cm x H4.7cm, 0.2kg	
Installation		1.5m x 2.5m	2m x 2.5m

## OXYSYS SERIES

# OXYSYS 4000 / 4500



### + Features

- Two controllable pressures : 2psi and 4psi.
- Safety knob to release pressure in emergency.
- Air conditioner to reduce the of high pressure oxygen.
- Wide and convenient transparent viewing window.
- Adjustable timer for therapy.
- Calling bell for the emergency.
- Easy installation and movement.



### + Specifications

Model		Oxysys 4000	Oxysys 4500
Chamber	usage	one patient	one patient and one careperson
	material	Polyurethane	
	size / weight	220cm x Ø70cm, 22Kg	220cm x Ø90cm, 25kg
	normal pressure	2 / 4 psi	
Oxygen Generator	fluid volume	5 Liters/min	
	purity	90%±5%	
	power consumption	220VAC±10%, 60Hz, 500VA	
	size / weight	W550cm x H500cm x D240cm, 30kg	
System	fluid volume	85 Liter / min	
	specification	DualHeadOil-less	
	air filter	Dual	
	power consumption	220VAC±10%, 60Hz, 660VA	
	size / weight	W530cm x H1075cm x D455cm, 110kg	
Installation		1.5m x 2.5m	2m x 2.5m

## M SERIES

# M4000 / 4500



### + Features

- Two controllable pressures : 2psi and 4psi.
- Safety knob to release pressure in emergency.
- Air conditioner to reduce the of high pressure oxygen.
- Wide and convenient transparent viewing window.
- Adjustable timer for therapy.
- Calling bell for the emergency.
- Easy installation and movement.



### + Specifications

Model		M4000	M4500
Chamber	usage	one patient	one patient and one careperson
	material	Polyurethane	
	size / weight	220cm x Ø70cm, 22Kg	220cm x Ø90cm, 25kg
	normal pressure	2 / 4 psi	
System	fluid volume	85 Liter / min	
	specification	DualHeadOil-less	
	air filter	Dual	
	power consumption	220VAC±10%, 60Hz, 350VA	
	size / weight	W550cm x H320cm x D740cm, 32kg	
Installation		1.5m x 2.5m	2m x 2.5m



## PET CHAMBER SERIES

# Pet Chamber



The postoperative patient benefits greatly from HBOT. Immediate results include the reduction of tissue swelling and inflammation and the decrease in pain associated with these processes. Some examples of surgical procedures that benefit particularly from HBOT include:

- Gastric dilation and volvulus, and the associated reperfusion injuries.
- Fracture repair, especially open fractures or those involving malunion or nonunion.
- Gastrointestinal resection and anastomosis, especially post-foreign body obstruction.
- Amputations
- Skin grafts
- Hemilaminectomy
- Ear canal ablation



## + Specifications

Model		Hard Type Pet Chamber	Soft Type Pet Chamber
Chamber	usage	one patient	
	material	Polycarbonate	Air-wall Type, PU
	size / weight	90cm x Ø60cm, 60kg	130cm x Ø70cm, 18kg
	normal pressure	3 psi	
System	fluid volume	85 Liter / min	
	specification	DualHeadOil-less	
	air filter	Dual	
	power consumption	220VAC±10%, 60Hz, 350VA	
	size / weight	W550cm x D320cm x H740cm, 32kg	
Installation		1.5m x 2.5m	2m x 1.5m