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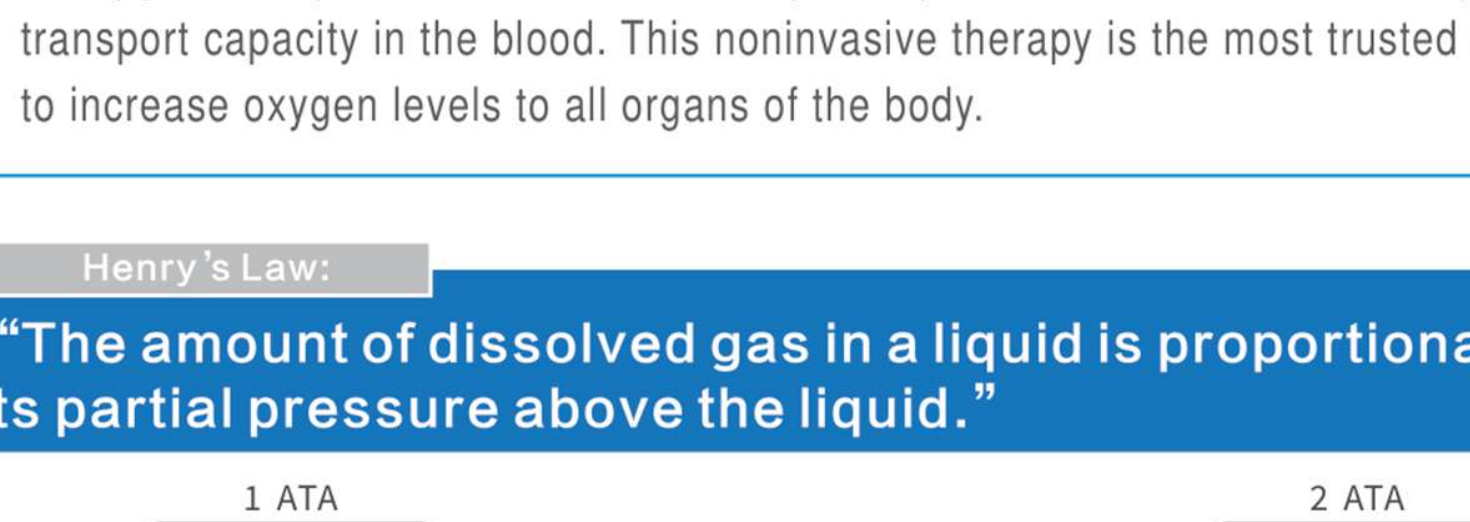
Hyperbaric Oxygen Therapy

Hyperbaric Oxygen Therapy is the medical use of oxygen at an increased level of pressure,(hyper) means increased, (baric) means pressure. Hyperbaric Oxygen Therapy is a treatment which enhances the body's natural healing process by providing an environment which allows the body to absorb much higher amounts of oxygen than possible at normal atmospheric pressure. It increases the oxygen transport capacity in the blood. This noninvasive therapy is the most trusted way to increase oxygen levels to all organs of the body.

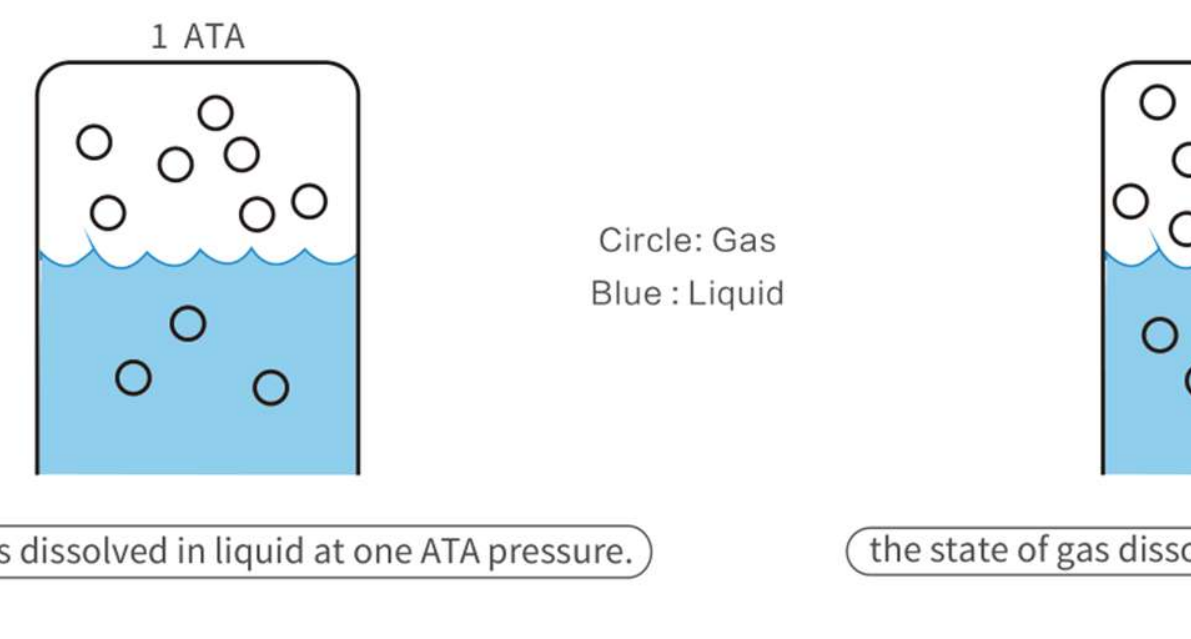
Henry's Law:

"The amount of dissolved gas in a liquid is proportional to its partial pressure above the liquid."



the state of gas dissolved in liquid at one ATA pressure.

the state of gas dissolved in liquid at two ATA pressure.



Oxygen transport can be classified into “combined oxygen and dissolved oxygen”. When entering blood, most oxygen will be combined with hemoglobin, then become combined oxygen. Another part of oxygen will be dissolved in plasma directly and physically, then become dissolved oxygen. Therefore, combined oxygen is difficult to pass the narrow vascular wall, while dissolved oxygen is small and can greatly dissolved in blood and fluid under hyperbaric circumstances.

Hyperbaric Chamber Sitting Type

Model:L1

Features

1.3 ATA/1.4ATA/1.5ATA operating pressure.
“L” shaped zipper for easier entrance.
Vertical design - smaller footprint.
Most economical model for home treatment or commercial usage.
Emergency valve - To speed the depressurization in emergency.
Easy Operation - One people can operate it without assistance.
Delivers 93% oxygen under pressure via an oxygen headset/facial mask.
Internal Pressure Gauge - User can observe the pressure while inside the chamber.
Internal metal frame - Hold the shape when deflated.

Model		L1
Chamber Capsule	Pressure	1.3/1.4/1.5 ATA
	Material	TPU
	Size(D*L)	140x100x160cm (56x40x64 inch)
	Weight	13kg
Air Compressor	Size	39x24x26cm (16x10x11 inch)
	Type	Quiet&Oil Free Type. Two Super adsorption activated carbon filters in air Input and Outlet to protect.
Oxygen Concentrator	Size	35x32x57cm (14x13x23 inch)
	Flow Rate	5 Liter/min /10Liter/min
	Description	PSA Molecular Sieve High Technology. Continuous Oxygen production, no need for oxygen tank.
Air Cooler	Size	18x12x35cm (7.2x5x14 inch)
	Description	Cooling and dehumidification

Hyperbaric Chamber Wheelchair Type

Model:MC4000U&MC4000N

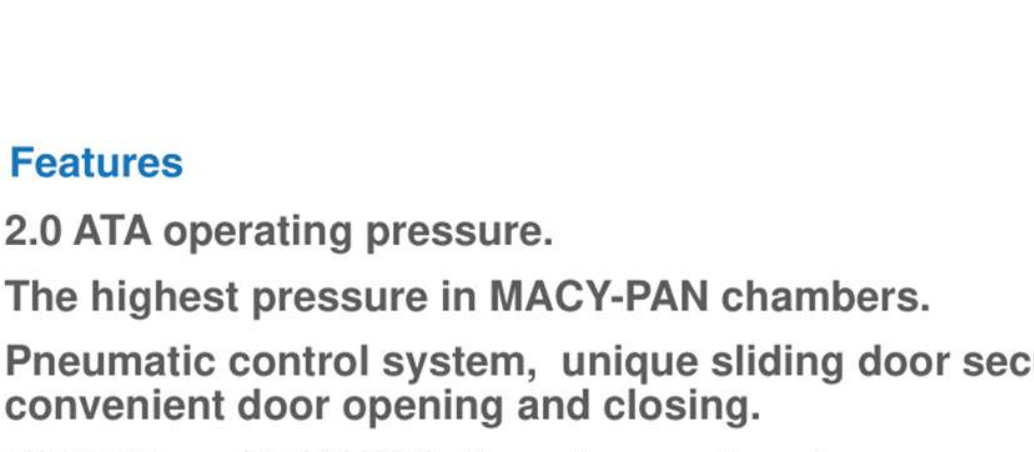
Features

1.3ATA/1.4ATA mild operating pressure.
Fully covered with nylon cover - Unique 3 zipper seals for air leak prevention.
Emergency valve - To speed the depressurization in emergency.
Delivers 93% oxygen under pressure via an oxygen headset or oxygen mask.
Available "U" type door and "N" type for your choice
Designed to accommodate 2 folding chairs with comfortable space
Wheelchair accessible, designed for people with limited mobility.

Mode		MC4000U/MC4000N
Chamber Capsule	Pressure	1.3/1.4 ATA
	Material	TPU
	Size(D*L)	140x130x175cm (56x52x70 inch)
	Weight	20kg
Air Compressor	Size	39x24x26cm(16x10x11 inch)
	Type	Quiet&Oil Free Type. Two Super adsorption activated carbon filters in air Input and Outlet to protect.
Oxygen Concentrator	Size	35x32x57cm(14x13x23 inch)
	Flow Rate	5 Liter/min /10Liter/min
	Description	PSA Molecular Sieve High Technology. Continuous Oxygen production, no need for oxygen tank.
Air Cooler	Size	18x12x35cm(7.2x5x14 inch)
	Description	Cooling and dehumidification
Folding Chair (Optional)	Description	Durable and elastic. Can sit or semi–ly inside chamber. Weight: 9kg

Hyperbaric Chamber 2.0ATA Type

Model:HP2202



Features

2.0 ATA operating pressure.
The highest pressure in MACY-PAN chambers.
Pneumatic control system, unique sliding door secure locking mechanism for convenient door opening and closing.
75/85/90cm (30/34/36") diameters optional.
Interphone system for two-way communication.
Delivers 93% oxygen under pressure via an oxygen headset/facial mask.
Control system combines of air compressor oxygen concentrator and cooling unit.
User friendly design, safe and simple to operate.

Model		HP2202–75	HP2202–85	HP2202–90
Chamber Cabin	Pressure	2.0ATA	2.0ATA	2.0ATA
	Material	Stainless steel+Polycarbonate		
	Size (D*L)	75x220cm (30x87 inch)	85x220cm (34x87 inch)	90x220cm (36x87 inch)
	Weight	150kg	180kg	200kg
System Machine	Size/Weight	76x45x65cm (30.4x18x26 inch), 80kg		
	Flow of Air	72 Liter/min		
	Flow of Oxygen	5Liter/min / 10Liter/min		
	Air Filter	Dual		
	Voltage	110VAC/220VAC ± 10%		
	Description	All–in–one machine, a combine of air compressor, oxygen concentrator, and air dryer, air conditioner as an option		

Hyperbaric Chamber Sitting Type

Model:HP750

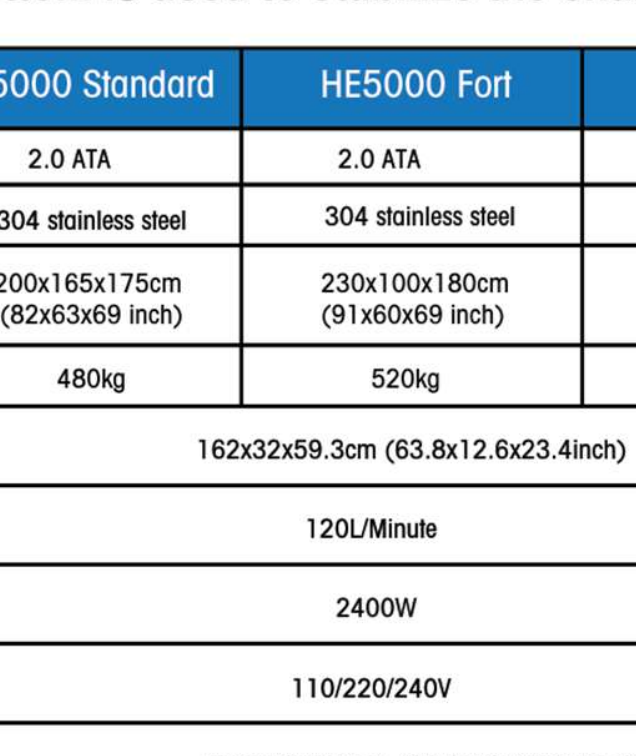
Features

2.0ATA operating pressure.
Internal and external touch screens make it operable both inside and outside.
Water-cooled chiller provide a comfortable space for the session.
Oxygen, pressure and AC to be set separately.
Large sliding window/door and two windows at sides.
93% oxygen concentration via an oxygen headset or oxygen mask.
Interphone system allows the user to communicate to the operator.
Spacious room for you to relax and enjoy.

Model		HP750
Chamber Cabin	Pressure	2.0ATA
	Material	Stainless steel
	Size (L*W*H)	185 x 87 x 152 cm (73 *34*60 inch)
	Weight	600kg
System Machine	Size/Weight	76x45x65cm (30.4x18x26 inch), 80kg
	Flow of Air	72 L/min
	Flow of Oxygen	10 Liter/min
	Air Filter	Dual
	Voltage	110/220/240VAC ± 10%
	Description	Integrated with an air compressor and an oxygen concentrator
Air Conditioner	Temperature range	110℃~Room temperature
	Voltage	110/220/240VAC ± 10%
	Weight	35kg

Hyperbaric Chamber Multiplace Type

Model:HE5000 Mono



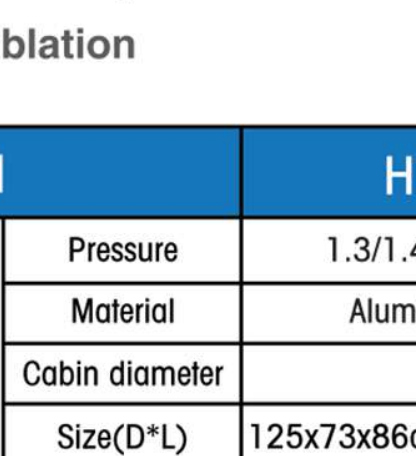
Features

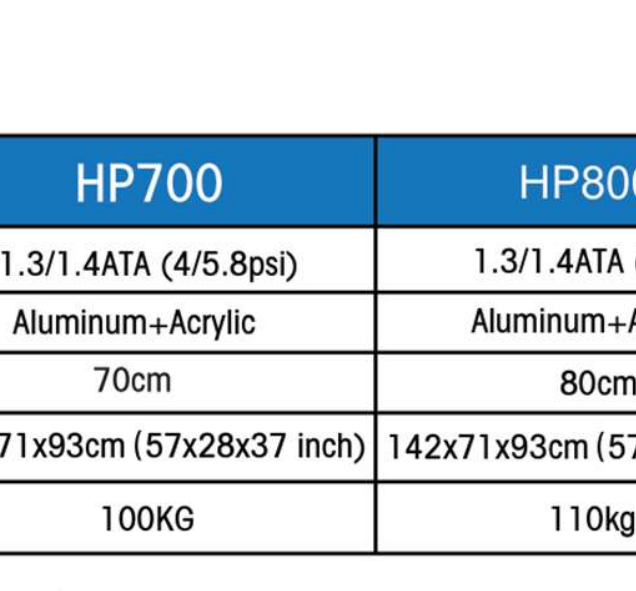
2.0ATA operating pressure.
Emergency valve - To speed the depressurization in emergency.
Delivers 93% oxygen under pressure via an oxygen headset or oxygen mask.
Internal Pressure Gauge - The user can observe the pressure while inside the chamber.
Specially designed for 3-6 people, you can sit/recline/lay down inside chamber with friends or families and enjoy hyperbaric oxygen therapy together.
More space for people who are claustrophobic.
The bracket at the bottom is used to stabilize the chamber.

Model		HE5000 Standard	HE5000 Fort	HE5000 Plus	HE5000 Mono
Chamber Capsule	Pressure	2.0 ATA	2.0 ATA	2.0 ATA	2.0 ATA
	Material	304 stainless steel	304 stainless steel	304 stainless steel	304 stainless steel
	Size(D*L)	200x165x175cm (82x63x69 inch)	230x100x180cm (91x60x69 inch)	250x160x175cm (98x63x69 inch)	175x88x187cm (69x34x74 inch)
	Weight	480kg	520kg	660kg	380kg
System Machine	Size	162x32x59.3cm (63.8x12.6x23.4inch)			66*42*98cm (26.0*38.6*16.5 inch)
	Flow of Air	120L/Minute			Air: 120L/Minute Oxygen: 10L/min (adjustable)
	Power	2400W			1600W
	Voltage	110/220/240V			110/220/240V
Oxygen Concentrator	Size	75.8x42x72.1cm (29.8x16.5x28.4inch)			Air conditioning system
	Flow	20L/min (adjustable)			size: 41*32*57cm (16*13*22.4 inch)
	Power	1600W			Power:300W
	Voltage	110/220/240V			Voltage:110/220/240V

Hyperbaric Chamber Veterinary Type

Model:HP600/HP700/HP800





Applications

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

Model		HP600	HP700	HP800
Chamber Cabin	Pressure	1.3/1.4ATA(4/5.8psi)	1.3/1.4ATA (4/5.8psi)	1.3/1.4ATA (4/5.8psi)
	Material	Aluminum+Acrylic	Aluminum+Acrylic	Aluminum+Acrylic
	Cabin diameter	60cm	70cm	80cm
	Size(D*L)	125x73x86cm (49x29x34 inch)	142x71x93cm (57x28x37 inch)	142x71x93cm (57x28x37 inch)
	Weight	65KG	100KG	110kg
System Machine	Size/Weight	77x46x72cm (30x18x28 inch),70kg		
	Flow of Air	72 Liter/min		
	Flow of Oxygen	5Liter/min/10Liter/min		
	Air Filter	Dual		
	Voltage	110VAC/220VAC ± 10%		
	Description	All–in–one machine (integrated with an air compressor, an oxygen concentrator and an AC)		

FAQ

Why is oxygen so important?

An adult consumes 2 kg of food, 1 litter of water and almost 550 litters of oxygen every day on average. 90% of our daily energy comes from oxygen and the rest from food and water. Human brain is 2% of the total weight yet uses 25% of the oxygen we breathe in. We need this oxygen for the energy cycle that sustains life. When we do not have enough oxygen supply in our body tissues, a series of conditions occur that, if without correction, may lead to medical conditions, such as infection and tissue failure. If there is low oxygen in tissues (hypoxia), there is a short window of opportunity to correct it. An excellent method to do this is by hyperbaric oxygen sessions.

What do I feel inside a hyperbaric chamber?

When the chamber is being pressurized, you may feel pressure change in your ears. You might get uncomfortable or even pain in your ears. To equalize the pressure and avoid stuffness in your ears, you can yawn, swallow or blow your nose. When the pressure reaches and keeps at its highest setting, you will feel better and normal again.

How does it work?

When you are inside a chamber with 1.3 times or higher pressure than atmospheric pressure, you may not feel any difference, but breathing high-purity of oxygen in the chamber provides you with 7-8 times more oxygen. Henry's Law states that for a gas-liquid interface the amount of the gas that dissolves in the liquid is proportional to its partial pressure. The pressurized oxygen dissolves directly into your body fluids. In just a few minutes, this extra oxygen builds up tissue oxygen levels quick, which, studies have proven, facilitates healing.

What improvements can I expect to see ?

This is one of those questions which has so many different variables and answers we will have to generalize. We will answer this question from general experience and with the understanding that no two people get the same results. It is very rare that we do not see improvements. What we are looking for is an improvement in the quality of life for users.

How many sessions do I need? When should I stop?

It depends. What you will be able to notice is whether you are getting improvements. A clinical study on 1730 subjects shows the need of around 15 sessions for acute injuries and 40 for chronic ones. If you see results during the first 40 sessions, do another 40. If improvements continue, do another 40. You are a better judge of the number of sessions needed than any doctors.

What about Oxygen Toxicity?

Oxygen toxicity happens only when you are in a chamber with higher pressure for a very long time: more than 2-3 hours in a 2.0ata chamber, more than 1.5 hours in a 2.5ata chamber and more than 1 hour in a 3.0ata chamber. Many times stress is mistaken for oxygen toxicity. Occasionally, there may be a user who is more sensitive to oxygen than others and pressures may need to be adjusted to meet the needs of the user.

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