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AHA HYPERBARICS[®]
breathe the future

Meet the advanced
AHA[®] hyperbaric systems

WE'RE REACHING NEW DIMENSIONS IN HYPERBARIC MEDICINE

It is proven that the pressure inside a hyperbaric chamber has to be at least 160 kPa (1.6 bar) in order to achieve the desired therapeutic effect. But only a handful of manufacturers on the market are able to produce equipment with such a high pressure. Our company has the knowledge required to achieve this high pressure.

*Using our own experience and development, we've managed to reach new dimensions within the field of hyperbaric medicine. We can proudly state that the AHA Hyperbarics® GmbH company is **the European golden awarded manufacturer of innovative hyperbaric chambers**, capable of reaching up to **200 kPa (2.0 bar, 15 psi) of pressure.***

Our AHA® Flex hyperbaric systems are medical devices and are certified according to the **European Council directive concerning medical devices 93/42/EEC. All our products** are manufactured based on the quality management system in the production of medical products as determined by **ISO 13485.**

Our top quality hyperbaric systems can be used at hospitals, health centers, wellnesses, by athletes as well as sports clubs, or individuals.



For almost 200 years, the hyperbaric oxygen therapy has been used as a regenerative health treatment and has helped improve the overall wellbeing of people. Lack of oxygen is one of the most common reasons behind the appearance of numerous illnesses and cell damage.

The therapy is entirely natural and is carried out by exposing the patient to a pressure higher than the atmospheric pressure and supplying them with pure oxygen through special devices called hyperbaric chambers.



There exists a long list of beneficial and stimulating effects of using hyperbaric oxygen therapies. Some doctors describe these therapies as important breakthroughs in modern medicine, and even go as far as comparing them to the introduction of blood transfusion and antibiotics in medicine.

Our company is the European golden awarded manufacturer of innovative monoplace hyperbaric chambers with corresponding certificates and capable of reaching pressure of up to 200 kPa (2.0 bar, 15 psi).



The AHA® hyperbaric systems are very safe to use and particularly functional

Due to their functionality and safety of use, the AHA® hyperbaric systems have a wide variety of users.

AHA® hyperbaric systems are used in hospitals, clinics and other health centers, health resorts, residential care homes, wellness and spa centres, hotels, sports clubs, gyms, etc.

AHA® hyperbaric systems are also suitable to be used privately, for domestic use.

Functionality

- › Portable (can be disassembled into individual parts, allowing easy transportation).
- › Lightweight (none of the device's parts weigh more than 35 kg).
- › Does not require oxygen cylinders; instead oxygen is extracted from the surrounding air with oxygen concentrators.
- › Hyperbaric chambers are big and bright.

Safety of use

- › Tested and manufactured in accordance with the safety standards.
- › Oxygen inhaled inside the chamber is moist and warm and as such is deemed safe and will not cause inflammation of lungs if used frequently.
- › Users are exposed to air in the chamber, not pure oxygen, while they simultaneously inhale pure oxygen using a provided oxygen mask.
- › Oxygen supply does not require oxygen cylinders and storage.
- › Users are constantly being monitored by trained and certified hyperbaric operators.

Inhaling oxygen when exposed to high pressure allows a better absorption of this vital gas in all of the body's fluids.





AHA® Flex hyperbaric systems are used for medical purposes:

- › Crush injuries
- › Diabetic foot ulcer
- › Cerebrovascular insult (CVI) – stroke
- › Post-concussion syndrome (PCS) after mild traumatic brain injury
- › Autism
- › Scleral ischemia or melt
- › Interstitial cystitis / painful bladder

AHA® Fit hyperbaric systems are used for wellness purposes:

- Hyperbaric treatments in our hyperbaric chamber have common non-medical / wellness therapeutic effects in the following fields:
- › General health and overall well-being
 - › Beauty
 - › Sport

More information regarding use are available on our website www.aha-hyperbarics.com.

The hyperbaric therapy using pure oxygen in the AHA® hyperbaric chambers is an entirely natural, safe, non-invasive and pain free therapy without any kind of documented side effects.



"We have already completed a series of 20 treatments and we are fully satisfied. Our son didn't have any issues the entire time he spent in the chamber. We have certainly noticed an improvement in his communication skills (increased range of his vocabulary, he is now forming longer sentences and is more frequently asking questions) and an improvement in social interaction (he now meets new friends and plays with them in the playground)."

(Parents of an autistic child, medical clinic Thymos, Poland)

"After using hyperbaric therapy my mood improved and I was full of energy. I felt rested and ready for new efforts. I particularly recommend the therapy to top athletes, as I'm personally familiar with the importance of rest and recovery."

(World class alpine skier, AHA Hyperbarics® Centre, Slovenia)

ABOUT US

AHA Hyperbarics® GmbH is an **internationally recognized manufacturer** of hyperbaric equipment, situated in Vienna, Austria. We have been acquiring experience within the field of hyperbaric medicine for over 18 years, while the development of the AHA® hyperbaric system itself took over three years to complete.

Accessibility **H**igh quality **A**wareness

Health Balance Opportunity Teamwork

We provide:

- › innovative products
- › exceptional quality
- › training
- › servicing and support

We value:

- › satisfied customers
- › results
- › non-invasive approach in treatments
- › natural treatments

You can count on our products' reliability

Our products stand out with the carefully selected materials of the highest quality. The materials used to manufacture the AHA® hyperbaric chambers **do not oxidize and do not deteriorate** despite being exposed to a high concentration of oxygen. Our chambers are technologically advanced and **consist of a multilevel structure** required to ensure safety and reliability of use. All of the described advantages allow us to offer you **a warranty period of two years, or 2000 operating hours.**

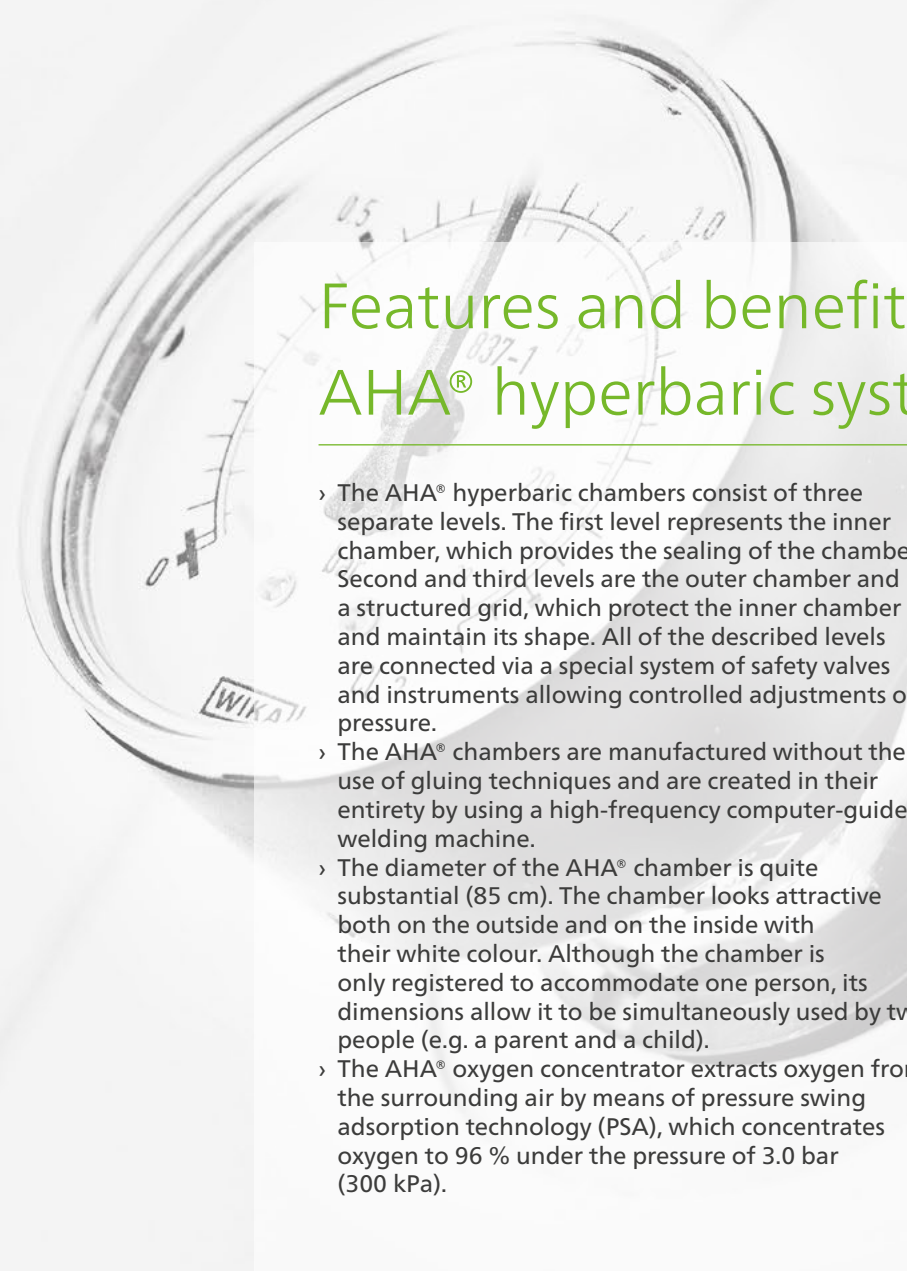
Our medical hyperbaric system products are manufactured in accordance with the

European Council directive concerning medical devices MDD 93/42/EEC for the safety class IIb. All of our products are manufactured and tested based on the quality management system in the production of medical products, determined by **ISO 13485.**

We strive for constant progression

Our development team constantly seeks new medical indications and new product improvements. By doing so, we manage to offer our customers highly technologically advanced and reliable products.

Beneficial hyperbaric therapy by means of pure oxygen supply regenerates damaged cells in a human body and prevents further damage from occurring. Users inhale larger quantities of oxygen due to being exposed to a high-pressure environment, which allows more oxygen to be distributed to the damaged tissue and this in turn leads to a quicker recovery. Physical properties of oxygen cause it to dissolve in plasma when exposed to high pressure. Consequently, plasma supplies all of the body's tissues with oxygen, even tissue with poor blood circulation.



DISCOVER OUR HYPERBARIC SYSTEMS

We offer the following high-quality monoplace portable AHA® hyperbaric chambers:

Medical hyperbaric chambers

AHA® Flex 18

max. operating pressure 180 kPa
(1.8 bar, 12 psi)

AHA® Flex 20

max. operating pressure 200 kPa
(2.0 bar, 15 psi)

Wellness / sport chambers

AHA® Fit 18

max. operating pressure 180 kPa
(1.8 bar, 12 psi)

AHA® Fit 20

max. operating pressure 200 kPa
(2.0 bar, 15 psi)

AHA® chambers are powered by an oil-free **AHA® air compressor**, which provides ventilation inside a chamber with an airflow of 170 l/min and ensures appropriate operating pressurization by using overpressure valves.

Features and benefits of the AHA® hyperbaric systems

- › The AHA® hyperbaric chambers consist of three separate levels. The first level represents the inner chamber, which provides the sealing of the chamber. Second and third levels are the outer chamber and a structured grid, which protect the inner chamber and maintain its shape. All of the described levels are connected via a special system of safety valves and instruments allowing controlled adjustments of pressure.
- › The AHA® chambers are manufactured without the use of gluing techniques and are created in their entirety by using a high-frequency computer-guided welding machine.
- › The diameter of the AHA® chamber is quite substantial (85 cm). The chamber looks attractive both on the outside and on the inside with their white colour. Although the chamber is only registered to accommodate one person, its dimensions allow it to be simultaneously used by two people (e.g. a parent and a child).
- › The AHA® oxygen concentrator extracts oxygen from the surrounding air by means of pressure swing adsorption technology (PSA), which concentrates oxygen to 96 % under the pressure of 3.0 bar (300 kPa).

The AHA® hyperbaric chambers are:

- › Safe
- › Easy to use
- › Portable and inflatable
- › Light-weight
- › Unique
- › Certified for exposure to pressure up to 200 kPa (2.0 bar, 15 psi)

Our hyperbaric systems are a **result of our own development.**





COOPERATING WITH US

The road to success can be reached together. Our company is always open to connecting and cooperating with business partners who share a similar vision.

We provide solutions to our partners in the following forms:

CONSULTATION

We offer consultation prior to your purchase of hyperbaric systems and any additional equipment.

AFTER SALES SUPPORT

Installation: Performed by an authorized hyperbaric technician or fitter.

Servicing and repairs: We provide servicing and perform repairs all across the world.

TRAINING

Training is required in order to use our devices. This allows us to ensure they will be used safely. Training programmes consist of many courses, ranging from hyperbaric operator training programmes, to training programmes for medical staff.

SUPERVISION

Upon successful completion of the hyperbaric operator course, we offer you also supervision, which will provide you with additional experience along with practical operation.



"We're very pleased with our cooperation with the AHA Hyperbarics® company. They have offered excellent support which included the installation of the AHA® Flex hyperbaric system, whilst supplying professional training for its proper handling."

(Buyer of the AHA® Flex system, Denmark)

"We've bought the AHA® Flex 20 hyperbaric chamber. The chamber is made of high quality materials; every detail is well constructed. Because of the chamber's white colour, it gives patients a feeling of space and security without causing claustrophobia. All of the conducted research, certificates and the chamber itself prove it's reliable, safe and comfortable to use. At the same time all of our chamber operators appreciate the simplicity required for its operation, which allows them to pay full attention to the patient, making them feel safe during the procedure, so they can fully relax during their session inside the chamber."

(Buyer of the AHA® Flex system, Oxygen company, Poland)



APPENDIX - technical characteristics of the products



Hyperbaric chambers

Device	AHA® Flex 20 / AHA® Fit 20	AHA® Flex 18 / AHA® Fit 18
Max operating pressure	200 kPa (2.0 bar) (± 1 kPa (0.01 bar)) (± 2.5 %)	180 kPa (1.8 bar) (± 1 kPa (0.01 bar)) (± 2.5 %)
Relative humidity	30-75%	30-75%
Temperature range	2°C to 35°C	2°C to 35°C
Atmosphere pressure	1060 hPa - 700 hPa	1060 hPa - 700 hPa
Altitude	< 3000 m	< 3000 m
Operating area	must be with low dust	must be with low dust
Capacity	Mono-place chamber (one person or child with a parent)	Mono-place chamber (one person or child with a parent)
Size - length	250 cm	250 cm
Size - diameter	85 cm	85 cm
Volume	1.42 m³ (± 5 %)	1.42 m³ (± 5 %)
Weight without the compressor	35 kg	35 kg

Air compressor

Device	AHA® Air 22 / AHA® A22
Max operating pressure	230 kPa (2.3 bar) (± 1kPa (0.01 bar))
Max limited pressure	300 kPa (3 bar)
Noise level	65 dBA
Power	600 W, 230 V, 50 Hz, Single Phase
Fuse	T4A H 250 VAC
Air flow	170 lpm (litres per minute)
Relative humidity	30-75%
Temperature range	2°C to 35°C
Atmosphere pressure	1060 hPa – 700 hPa (1060 mbar – 700 mbar)
Altitude	< 3000 m
Operating area	must be with low dust

Oxygen concentrator

Device	AHA® Oxy 22 / AHA® O22
Oxygen pressure	0-230 kPa (0-2.3 bar)
Max limited pressure	300 kPa (3 bar)
Noise level	65 dBA
Oxygen purity	93 % (± 3 %)
Oxygen dew point	-51 °C (-60 °F)
Response time	Approximately two (2) minutes to attain maximum purity after initial start-up or extended shut-down.
Sound levels	65 dBA at 1 m
Power	700 W, 230 V, 50 Hz, Single Phase
Fuse	T4A H 250VAC
Relative humidity	30-75 %
Temperature range	2 °C to 35 °C
Atmosphere pressure	1060 hPa – 700 hPa (1060 mbar – 700 mbar)
Altitude	< 3000m
Operating area	must be with low dust
Dimensions	43 x 26 x 71 cm (W x L x H)
Weight	36 kg



MANUFACTURER

AHA Hyperbarics® GmbH

Mellergasse 4

1230 Vienna, Austria

+43 664 398 98 14

sales@hbot.eu

www.aha-hyperbarics.com