

Hyperbaric Oxygen Supply System

(Oxygen concentrator and Compressor combine in one)

User Manual



Applicable models: uMR O7, uMR O7+

Please read this manual carefully before use to ensure safe use. After reading, please keep it in a safe place for reference at any time.

The pattern is for reference only, please prevail in kind

This device is only for home, oxygen chamber and other places or equipment supplementary oxygen use, not considered as life support or life extension!

⚠ Notice to users:

This manual is used to guide operators and users to operate, use, maintain uMR O7, uMR O7+ Hyperbaric Oxygen Supply System (Hereinafter referred to as: **Oxygen System**). Please make sure you understand the content of this manual before using the oxygen system.

To use this product safely, please be sure to read the important warnings and cautions and other safety information carefully.

⚠ Warnings and Precautions:

A. Before installation:

1. The oxygen supply system is forbidden to lie upside down.
2. If the power supply voltage is unstable and exceeds the range of $220V \pm 10\%$, please connect a voltage stabilizer before using it.
3. Please choose the socket or connection board required by the national safety certification.
4. Non-professionals should not open the case!
5. Be careful of electric shock, and it is strictly forbidden to disassemble the machine by yourself. If necessary, please contact qualified service personnel for repair.

B. Safety symbols and their meanings

Please pay attention to the graphics and symbols in the following labels for correct and safe use of the product to prevent hazards or damages.

	Class II equipment		Up
	Disconnect (only used in part of the device)		Avoid the Rain
	Fragile Items		No Smoking
	Notice! Consult documents		No Fire
	Disconnect (total power supply)		On (total power supply)
	Alternating Current		Stacking Layer Limit
	Connected (Only used in part of the device)		

C. Place

1. The oxygen system should be placed in a ventilated place indoors, and avoid direct sunlight, and the surrounding distance from walls and other objects should be more than 50cm.
2. Do not place or store the oxygen system in a place where it is easy to drip into water or other liquids.
3. It is strictly forbidden to block the air inlet of the oxygen system or place the machine on a soft surface, such as a bed or sofa, where the air inlet may be blocked. The air outlet at the bottom



of the oxygen system should be kept away from fluff, hair or other similar objects, so as to prevent failures such as shutdown or oxygen concentration drop caused by overheating caused by the blockage of the exhaust outlet.

4. The oxygen system should avoid being placed in places with pollutants, dirty ground or smoke.
5. Do not place the product where infants or unconscious patients can touch it.

D.Using

1.Oxygen is a combustion-supporting gas. Do not smoke when using it and keep it away from bright and dark fire sources, so as not to cause fire or affect the service life of the compressor.

-The Oxygen System should be kept away from flammable and explosive places.

Oxygen is a combustion-supporting gas. No smoking during use, and keep away from matches, burned cigarettes and other flammable sources. Textiles and other normally non-combustible materials are ignited and burn violently in oxygen-enriched air.

Ignoring this warning could result in severe fire, property damage, personal injury or death.

-Take special care to reduce the risk of fire when using oxygen. Some materials will burn in air, others will not burn in air but will ignite easily and burn rapidly in the presence of oxygen. From a safety point of view, the Oxygen System must be kept away from flammable sources when working.

-Oil, grease, or grease-like substances are liable to violent spontaneous combustion when exposed to oxygen under pressure. These substances must be kept away from the Oxygen System, pipelines, connections, and other oxygen components. Do not use any lubricant unless recommended in writing by the manufacturer.

2. Measures to reduce the risk of personal injury such as burns, electric shock, fire, etc.

-It cannot be used in the presence of flammable anesthetic gas mixed with air or flammable anesthetic gas mixed with nitrous oxide.

-Avoid any sparks near the Oxygen System equipment, including sparks caused by various frictional static electricity.

-If the power cord or plug of the Oxygen System is damaged, if the machine does not work properly, if the machine is dropped or damaged, please contact qualified maintenance personnel for inspection and maintenance.

-The power cord should be kept away from heat sources or high-temperature surfaces. If the machine will not be used for a long time, please do not put the plug on the power socket.

-It is strictly forbidden to move the Oxygen System by pulling the power cord, and it is not allowed to move the Oxygen System when it is charged.

-Do not connect this product in parallel or in series with other Oxygen Systems or oxygen therapy equipment.

-After each shutdown, it needs to be shut down for 3-5 minutes before it can be turned on again, so as not to affect the life of the compressor.

E. Precautions for Daily Use

-During transportation, the oxygen system must be placed vertically and must not be turned upside down.

-Do not use parts or accessories that are not approved by the manufacturer; using accessories

not specified by the Oxygen System may reduce the performance of the machine.

- The power must be unplugged when cleaning and maintaining the product.
- The air inlet of the Oxygen System should be located in a well-ventilated place.
- This device is not a portable device.

F. Electromagnetic Environment Interference and Harm

-Due to the sharp increase in the number of radio frequency transmitting devices or other electrical noise sources in medical and nursing places, serious interference caused by too close distance or too strong power of the transmitting source may cause the machine to stop working.

-If such a situation occurs, check the site of use, find out the source of interference, and take the following measures to eliminate the interference:

- Turn off nearby devices and turn them on again.
- Change the direction or location of the interfering device.
- Increase the distance between the interfering equipment and this equipment.
- If the electromagnetic interference in the surrounding environment exceeds the standard requirements, the performance of the machine may be affected.
- Portable and mobile radio frequency communication equipment may affect the performance of the machine. When using it, avoid strong electromagnetic interference, such as close to mobile phones, microwave ovens, etc.
- Except that the manufacturer of this product sells cables as spare parts for internal components, the use of accessories and cables outside the regulations may lead to increased emission or reduced anti-interference of the machine.

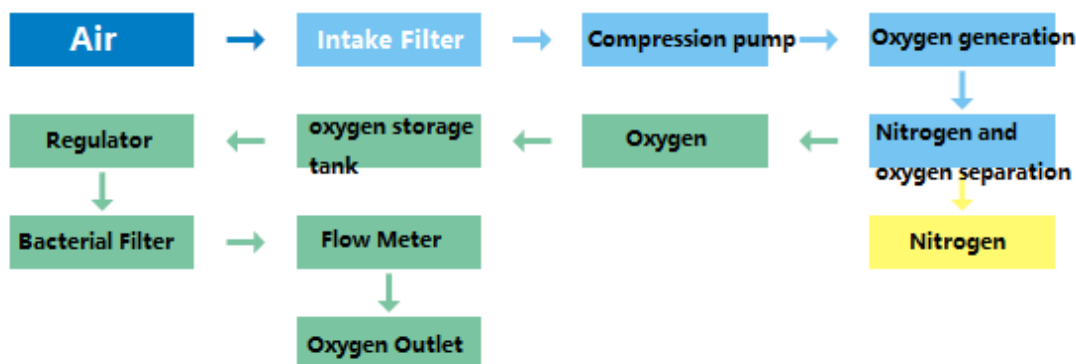
G. Maintain

Only dealers authorized by the brand owner or trained professionals can perform performance debugging and maintenance on the oxygen system.

【Features】

A. Product Applicable:

Using zeolite molecular sieve as the adsorbent, oxygen is produced by pressure swing adsorption (PSA), which is used to supplement oxygen for households, oxygen chambers and other places or equipment.



B. Working Principle:

Using air as raw material, a certain concentration of oxygen is produced through the principle of molecular sieve pressure swing adsorption (PSA method), as shown in the figure below.

C. Working Principle:

Timing control: With a display screen, the timing function is easy to use and easy to operate.

Overheating protection: The pure oil-free compressor is equipped with an overheating protector, which will automatically stop working when the operating temperature of the compressor is too high, so as to better protect the safety of the compressor and the whole machine.

D. Safe working conditions:

Ambient temperature range: 0°C~40°C Relative humidity range: ≤80%

Atmospheric pressure range: 95KPa~106KPa

When the temperature is lower than 0°C, the device should be placed in the normal working environment temperature for more than four hours before starting to work.

E. Storage and transportation

Ambient temperature range: -20°C~50°C; relative humidity range: 10%~93%, without condensation, atmospheric pressure range: 70KPa~106KPa.

F. Main technical indicators

Model: uMR O7, uMR O7+

Specifications: 10L, 15L

Oxygen production method: pressure swing adsorption (PSA)

Rated power: 550VA/750VA/1000VA Operating voltage/frequency: ~220V/50Hz

Oxygen concentration: 30%(V/V)~90%(V/V) Oxygen outlet pressure: 100KPa~200KPa

Operating noise: ≤45dB(A) Electrical classification: Class II

Gas channel: 2

Classification of degree of protection against night ingress: no protection against ingress of liquid
Operation mode: continuous operation

G. Structural composition:

This equipment consists of a compressor and an adsorption device.

H. Production date:

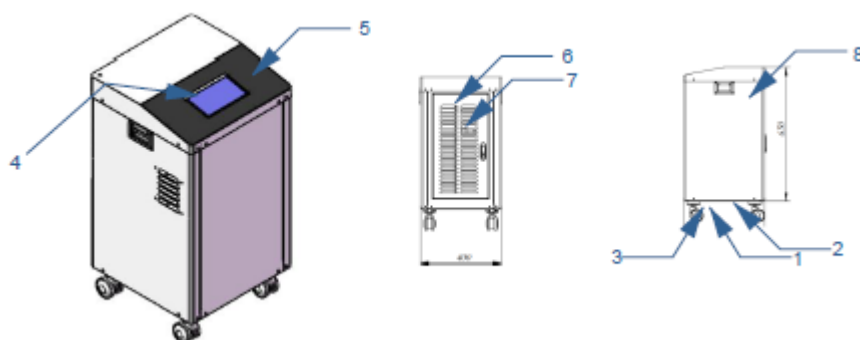
See nameplate and packaging for details.

I. Use period:

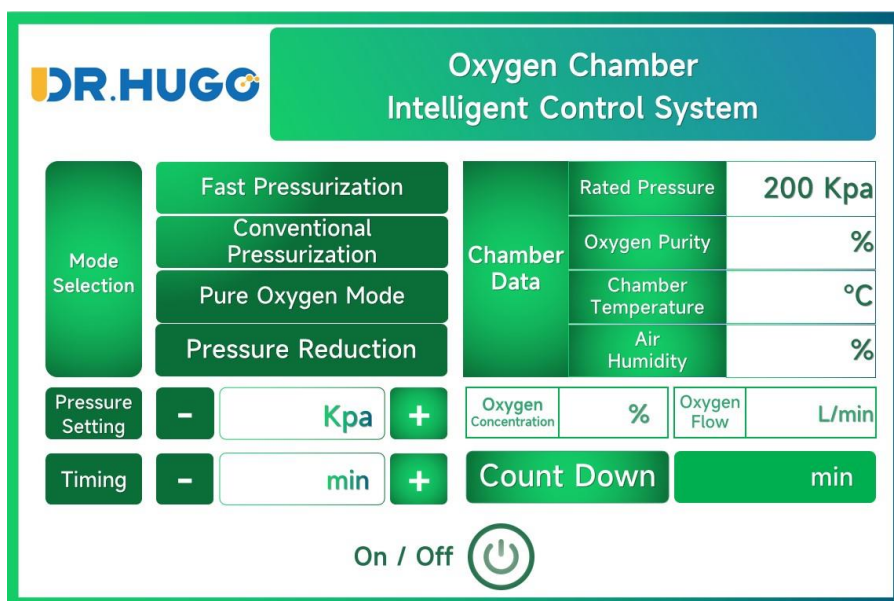
The service life of this equipment: five years (under the conditions of use, maintenance and maintenance recommended by the manufacturer) Note: The service life is calculated from the production date. The final interpretation right belongs to the manufacturer.

G. Important Spare Parts of Oxygen System:

Please familiarize yourself with the oxygen system before use



1. Air outlet 2. Oxygen outlet 3. Pressure relief port 4. Control panel
5. Switch button 6. Air inlet 7. Power switch 8. Flow meter



Control Panel Diagram

H. Operation Panel Description:

- The following is the operation panel of the oxygen system

Button	Functional description	Button Icon
On/Off	Starting and Stopping the oxygen system	
Pressure Setting	From 100KPA to 200KPA	Reference User Interface
Timing	Choose a different timing time, and it will automatically shut down when the timing is completed	Reference User Interface
Oxygen Therapy Mode	There are Fast Pressurization, Conventional Pressurization, Pure Oxygen Pressurization and Pressure Deduction Models	Reference User Interface

【Operation Guide】

A. Prepare Before Use:

- 1) Remove all packages and place the oxygen system in a place where oxygen inhalation is convenient, and the air circulates.
- 2) Walls, draperies, or other objects may affect the exhaust flow of the Oxygen System, so the air vent of the Oxygen System should maintain a space gap of at least 50 cm from these objects.
- 3) The oxygen system should not be placed in the following environments: near heat sources or light and dark fire sources, humid, unshielded, high, or low temperature environments.
- 4) Do not place sundries and water and oil containers on the machine.
- 5) Do not put any debris at the bottom of the Oxygen System to prevent the exhaust port from being blocked and causing the temperature to be too high, resulting in shutdown or a drop in oxygen concentration.
- 6) When placing the oxygen system, pay attention to prevent sliding and dumping.
- 7) The oxygen system should avoid placing it in the place of pollutants or smoke.

Note: When removing the outer packaging, to prevent the risk of suffocation caused by children playing, please properly dispose of the plastic packaging bag.

B. Start the Oxygen System

Insert the power plug of the oxygen system into the socket, press the power switch, the oxygen system is powered on at this time, the screen lights up, press the start and stop button, the machine starts to run, you can set the pressure, timing and other functions, and the display panel can display temperature and oxygen concentration in the cabin can be displayed, and the real-time oxygen concentration and oxygen flow rate can be displayed. After the machine runs to the set pressure value, it will automatically switch to oxygen generation and pressure maintenance.

E. Shutdown

After use, press the "On/Off" button on the control panel, and the machine will stop running after 30 seconds. Wait for the pressure in the cabin to drop to normal pressure and open the hatch to leave the cabin. Press the power switch, unplug the power plug, and cut off the power supply.

F. Timing Function Instructions

The oxygen system can be set to shut down at a fixed time. When the timing function is enabled, just touch the timing button to set the timing time. The timing time is: 30 minutes/60 minutes/90 minutes/120 minutes.

【Maintenance】

A. Oxygen System Maintenance

1. Replace air intake filter regularly

The replacement of the air intake filter is very important to protect the compressor and molecular sieve and prolong the life of the Oxygen System, please replace it in time. After the Oxygen System has been in normal operation for 600 hours, the customer should replace the intake filter. Filters are available at dealers.

WARNING: Do not operate the oxygen system without the intake filter installed or wet, as this will damage the machine.

2. Molecular Sieve Replacement

Molecular sieves may be worn and powdered during normal use. It is recommended to go to the dealer for maintenance every two years and replace the molecular sieves if necessary.

3. Routine Maintenance

In order to allow you to use the oxygen system better, you need to ask your service provider for routine maintenance every time the machine runs for 2000 hours.

4. Disposal of waste and residue

Regarding the disposal method of the discarded host, components and accessories, please follow the local regulations. Illegal disposal may cause environmental pollution.

B. Cleaning and Maintenance

1. Wipe and clean the outside of the case at least once a month. Cut off the power before cleaning, and wipe it with a clean and soft damp cotton cloth or sponge. Liquids must not seep into the gaps of the case.

【Troubleshooting】

A. Oxygen system fault detection and alarm signal prompt

1	External power disconnected	screen blank	When the oxygen system is powered off during use, there is no display on the screen, accompanied by an alarm sound, use spare oxygen, and contact the service provider immediately.
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B. Oxygen system breakdown maintenance

The following "Common Faults and Troubleshooting Guide" will help you analyze and correct the



faults of the oxygen system. If the suggested steps do not help, switch to your alternate oxygen system or other oxygen source and notify the oxygen system supplier. Do not attempt to repair it yourself.



Note: To avoid electric shock, please do not open the case. The housing should only be opened by authorized professionals.

Symptoms	Possible Cause	Method of Exclusion
A. When the switch is turned on, the machine does not run and the display screen does not light up.	1. The power cord is not properly plugged into the wall outlet 2. No power from the wall outlet 3. The circuit breaker of the oxygen system is off	1. Check whether the power supply is 220V and whether the connection between the power cord and the wall outlet is secure and in good contact. 2. Check the disconnect switch in your home and restart if necessary. If the same problem recurs, use another outlet. 3. Press the button of the disconnect switch of the oxygen system. If the same problem occurs again, please use another outlet.
B. When the switch is turned on, the machine runs, and the red abnormal icon lights up with an alarm sound.	1. Dirty or clogged air filter 2. The exhaust is blocked. 3. The air inlet is blocked. 4. Compressor failure.	1. Check the air filter, replace it if it is dirty (please buy a spare filter from your supplier). 2. Check the exhaust port, choose to use it in a well-ventilated environment, make sure there is nothing blocking the exhaust of the machine, and keep a space gap of at least 50CM. 3. Check whether the compressor starts or makes abnormal noises. If it fails to start or makes abnormal noises, please shut down and contact the supplier.
C. Abnormal sound when starting up after long-term storage	After long-term storage, the friction of the compressor increases.	Start the oxygen system normally, run it for about 20 minutes and then observe the abnormal sound of the machine



Note: If there are other abnormalities in the machine (not listed in the machine failure comparison table), please contact your seller for consultation.



DR.HUGO

Your Oxygen Therapy Expert

POWER BY:



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-Search our channel in YouTube to view operation video:

<https://www.youtube.com/@oxygensupplycenter>