

# OM REDOX

## YOUR OXYGEN BOX



OM Redox Your Oxygen Box is a convenient, portable oxygen provider, ready to use at the touch of a button.

For safe and effective operation, it's important to thoroughly read the accompanying brochure and manual.

This device utilizes advanced technology to ensure a reliable oxygen supply anytime, anywhere.

Developed by global scientists and introduced by the Indian startup Solaire Initiative Pvt Ltd, this product represents a significant technological breakthrough.

Note: Interpretation of the manual is at the company's discretion. Refer to the actual product for its appearance.

Keep the manual with the invoice after reading.

Technology or software updates may occur without prior notification. This product is intended for sale and usage exclusively in India.





# PREFACE

## **The intended use of the product**

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This product is a non-medical apparatus designed to deliver oxygen with a concentration exceeding 90%. It is intended solely for non-medical applications like home oxygen therapy and general healthcare. It should not be used as an oxygen inhalation device for surgical procedures, emergency first aid, or for patients in critical condition.

## **Warnings**

The warning/hazard warning signs and text markings in this manual are used for all hazardous operations that may result in personal injury or property damage.

## **DANGER**

It is strictly forbidden to smoke while using this product! Do not place matches, lit cigarettes, and any ignition sources in the room where the oxygen concentrator is located. "No Smoking" signs should be prominently displayed. Under normal conditions, non-flammable textiles or other materials can become flammable and burn rapidly in oxygen-rich air.

## **Disclaimer and Precaution**

Please do not operate the product without reading or fully understanding this manual. If you have any problems understanding the warnings and operation guidelines, please contact the agent or the manufacturer's technical service personnel, and do not operate the product by yourself. Failure to do so could result in serious bodily injury and property damage. Seek medical guidance before use.

## **Random Warnings**

The oxygen concentrator is developed and produced by our company, please use it with the included accessories. Except for the standard optional accessories (such as nasal cannula), the accessories produced by other manufacturers have not been tested by our company, which may affect the performance of this product, and it is not recommended to use it with this product.

## **Note**

**In case of unexpected power drains, warning states or mechanical failures, it is recommended to have a backup oxygen supply in place. Talk to your doctor or product provider about the type of backup system you need.**



# SAFETY SUMMARY

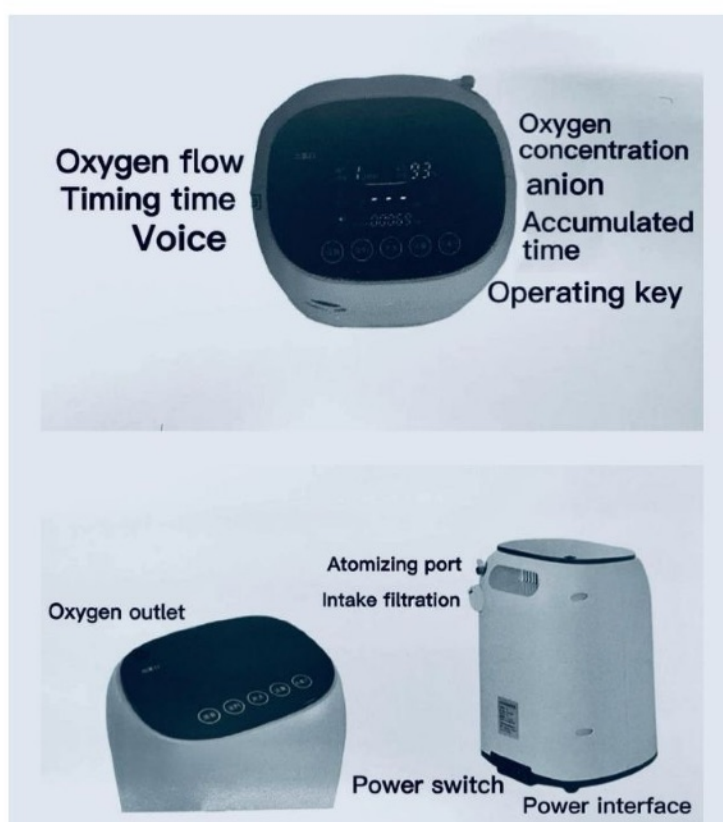


- **Dangers:** Beware of electric shocks! It is strictly forbidden to disassemble the machine by yourself! Please contact the authorized service personnel of the service center for technical assistance.
- **Warnings :** special care should be taken to reduce the fire hazard when using oxygen. Any material that is flammable and non-flammable in the air becomes extremely flammable and burns quickly when oxygen concentrations are high. For safety reasons, all flammable materials should be kept away from the oxygen maker OM REDOX and it is best not to be placed in the same room as the oxygen concentrator, or other oxygenating devices and where "no smoking" is allowed.
- Oils, greases or oily substances are highly susceptible to spontaneous combustion when exposed to oxygen under pressure. These substances must be kept away from oxygen concentrators, police circuits, connectors, and other oxygen generators.
- In order to achieve the best performance of the oxygen concentrator, it is recommended that each turn on should exceed 30 minutes. Switching the machine on and off frequently in a short period of time will reduce the service life.
- The power cord should be kept away from heat sources or hot surfaces!
- It is strictly forbidden to move the oxygen maker by pulling on the power cord!
- Do not drop or stuff foreign objects into any openings!
- It is strictly forbidden to block the air inlet of the oxygen maker or place the machine on a soft surface, such as a bed or sofa, where the air inlet and outlet may be blocked. The air intake should be kept away from plush, hair, or other similar objects.
- The oxygen maker OM REDOX should be placed in a ventilated room away from direct sunlight at least 10 cm away from walls, tapestries, furniture and the like.
- A crush-resistant, registered standard nasal cannula is recommended.
- The radio frequency energy used by this machine only acts on the internal operation of the machine, therefore, its radio frequency emission is low. It is not possible to have an impact on other electrical equipment in the vicinity. Due to the rapid increase in the number of radio frequency transmitters or other electrical noise sources in medical care settings, serious interference caused by too close proximity or too strong power of the transmitter may interrupt the operation of the unit
- If this happens, the site used should be inspected to find out the source of interference, and the following measures should be taken to eliminate the interference
- (1) Turn off nearby devices and turn them back on
- (2) Change the place or location of the interfering device
- (3) Increase the distance between the disturbance equipment and the equipment
- Do not use the machine in the bath. If the patient needs to use it continuously, the Oxygen Maker must be placed in another room at least 2 meters away from the bathroom.
- Do not use or store the Oxygen Maker machine in places where it is easy to fall into water or other liquids. Do not touch the machine that has fallen into water or other liquids! If you fall into water, unplug it immediately!
- When the machine is not in use, the power plug must be unplugged!
- If the power cord is damaged, it must be replaced by the manufacturer's repair department or a qualified professional in order to avoid danger
- Before use
- **Note:** Unless the oxygen generator is used immediately, the carton and packaging materials must be kept before use.
- First check the carton or other packaging for obvious damage. If it is damaged, please notify the carrier or local distributor in time
- Check the appearance of the oxygen generator for damage such as gaps, dents, bruises and soon.
- Remove all bulk packaging from the carton.
- Remove all components from the carton and examine all components carefully.
- Transport and storage conditions
- Ambient temperature range: -20°C~55°C
- Relative temperature range: ≤93%, and no condensation
- Atmospheric pressure range: 500hPa~1060hPa
- **Note:** The oxygen generator Oxygen Maker Redox should be stored in a room with no strong sunlight, no corrosive gases and good ventilation, and avoid violent transportation vibrate and lie upside down.
- **Storage:** Store the repackaged oxygen generator Oxygen Maker in a dry place. No object shall be placed on top of the oxygen generator



# Product structure

- **Display:** Oxygen generator in the normal working state when the display content.
- **Power Switch:** Oxygen generator in the condition of power, open the switch, oxygen generator into the working state. In the work, in case of sudden power failure, the machine stops working and gives an alarm sound.
- **Oxygen Outlate :** oxygen output port of oxygen generator.
- **Operation keys:** switch, flow, timing, negative ion, voice intake filter cover: one or two intake filter replacement.



# PRODUCT CHARACTERISTICS

## Technical Index:

1. in the nominal pressure range of the outlet flow range :1~9L
2. When the oxygen flow rate is 2L, the oxygen concentration is  $\geq 90\%$
3. machine noise : $<55\text{dB(A)}$
4. Power supply :220V~50Hz
- 5 Input power :150W
6. Weight: about 5kg
7. Overall size :190X210X290(m)
- 8 Altitude: sea level to 1828 meters will not reduce the oxygen concentration, from 1828 meters to 4000 meters efficiency is less than 90%
9. Safety system:  
Current overload or loose connection, stop  
Compressor high temperature, stop
10. The minimum working time: not less than 30 minutes
11. Normal working environment:  
Ambient temperature range : $5^{\circ}\text{C}$  to  $40^{\circ}\text{C}$   
Relative humidity : $\leq 80\%$   
Atmospheric pressure range :86kPa~106kPa  
Note: When the storage temperature is lower than  $5^{\circ}\text{C}$ , the device should be placed in the normal operating temperature environment for more than 4 hours before use
12. Electrical classification: Class II equipment
13. Working system: continuous operation
14. oxygen output temperature  $\leq 46^{\circ}\text{C}$
15. Suggestion: The length of the oxygen tube shall not exceed 15.2 meters and shall not be deflated
16. Waterproof grade :IPX0

**Oxygen Inhalation Benefits:** By enhancing the body's oxygen intake, this device aims to improve overall oxygen levels in the body, serving as a health and wellness supplement. It's particularly beneficial for middle-aged and elderly individuals, pregnant women, people with weaker constitutions, and students facing exam stress who experience varying levels of physiological oxygen deficiency. Additionally, it's effective in alleviating fatigue following intense physical or mental exertion, helping to rapidly rejuvenate the body's physical capabilities.

**Scope of application:** For personal oxygen use.

**Warning:** Not applicable to surgical, emergency and critical patients.



Students

Pregnant woman

Old man

Office staff



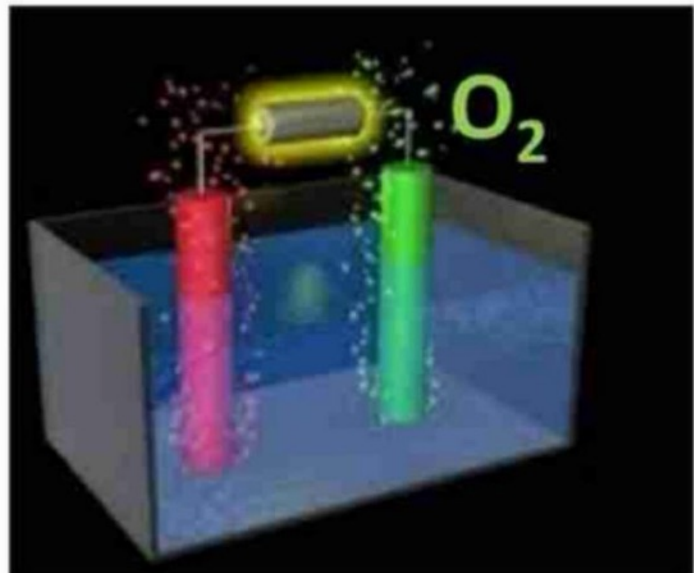
# WORKING PRINCIPAL

This device operates using a unique patented method. First, air is compressed and then pressurized. During this process, a specially engineered catalyst employing quantum spin engineering increases the oxygen concentration.

another catalyst absorbs the nitrogen present in the pressurized air. Oxygen then flows into a meter for regulating the output necessary for inhalation.

Simultaneously, another stream passes through a desorption aperture into the catalyst bed for purging and refreshing the catalyst.

The gas released from this process is expelled into the atmosphere through the device's valve exhaust port.



# Installation and use

## PREPARATORY WORK

1. Take out the OM Redox from the packaging box and remove all packaging
2. Connect the oxygen tube with the oxygen outlet of the machine
3. Connect the power cord: First make sure that the power switch of the oxygen generator is off, connect one end of the power cord to the oxygen generator power socket hole, and connect the other end to the safety grounding socket with power output. Do not use power extension cords.



## OXYGEN OPERATION

Press the power switch to "on", and then press the "button" switch "button" on the control panel, the oxygen generator icon lights up and enters the normal operation state. When the oxygen generator is working, it makes a "tap" sound every few seconds, which is a normal air exchange and exhaust sound. (Note: Oxygen concentration reaches a stable value 30 minutes after initial boot)

The flow rate is divided into 9 levels. Press the "Flow" button on the display screen to adjust the required flow rate. Connect one end of the oxygen tube to the oxygen outlet of the oxygen generator, and wear the other end with the oxygen user to start oxygen inhalation. ((as shown in the figure below) Adjust the oxygen inhalation time and oxygen flow rate, determine the end of oxygen inhalation as needed, close the oxygen generator, and remove the oxygen inhalation terminal

## POWER OFF

After oxygen use, turn off the power switch at the rear of the fuselage, and then unplug the power plug.

## ATOMIZING PORT:

Used to connect atomizing parts.





# Care and maintenance

## **FIRST**, clean the shell

Wipe and clean the outside of the chassis at least once a month: First, cut off the power supply and wipe with a clean and soft wet cotton cloth or sponge. Do not leak liquid into the cracks of the chassis.

## **SECOND**, clean or replace the primary filter block and secondary filter cotton

The cleaning and replacement of the filter sponge is very important to protect the compressor and molecular sieve and extend the life of the oxygen generator, please clean and replace it in time.

**Warning:** Do not operate the oxygen generator when the primary filter block and secondary filter cotton are not installed or wet, which will cause lasting damage to the machine. The primary filter block and the secondary filter cotton are generally cleaned or replaced every 100 hours.

1. Remove the primary filter block and secondary filter cotton, pull out the primary filter block and then remove the secondary filter cotton.
2. cleaning: first clean with light detergent, and rinse with water, must be dry, and then installed on the machine.

## **THIRD**, clean the nasal oxygen tube

Nasal oxygen tube is a disposable product, such as repeated use should be cleaned after each use, can be soaked in white vinegar for about 5 minutes with clean water, or wipe with medical alcohol. (Note: When cleaning, the oxygen tube should be kept dry.)



## Performance Pladge

This product from the date of sale within one week of non-human factors of quality problems, the company is responsible for return, replacement, repair

In the case of normal use and storage, the product from the date of delivery within 1 year (use period of 1 year) quality problems; Products from the date of delivery 1 year later (use period 1 year) quality problems, users can according to the invoice and warranty card to the company's after-sales service department, offices or dealers, the company to provide parts to repair, reasonable charges. The oxygen maker produced by the company has a warranty period of 12 months from the date of sale. Subsequent repair services are charged only at cost.

The following conditions are not covered by the warranty:

- ①Vulnerable, consumable products: headset type oxygen absorber, filter cotton, filter block
- ②Liquids such as water and drugs cannot work normally when they enter the machine.
- ③ The machine is flooded or rained
- ④ Failure caused by disassembly, repair and transformation of the product without authorization
- ⑤ The fault is caused by inadvertent fall during use or handling
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- ⑦ Failure caused by unforeseeable natural disasters such as: fire, earthquake, flood, etc.)

### MATTERS NEEDING ATTENTION

- Read the instructions carefully before use.
- Oxygen is a combustion gas, please do not smoke, avoid open flame.
- Do not start frequently to prevent oxygen generator with pressure start to cause failure, affect the life. Power cable damage or plug may result unsafe factors, do not use.
- Ensure that the air intake and exhaust of the oxygen generator are unobstructed, and the distance between the exhaust port and obstructions shall not be less than 15am.
- The oxygen inhaler should be dedicated to keep it hygienic.
- Waste and residue shall be disposed of in accordance with relevant state regulations





## Waste electrical and electronic recycling and disposal regulations suggestive instructions

The company advocates environmental protection and low-carbon consumption experience, it is recommended that users with the company's products when they no longer need this product, should comply with the relevant laws and regulations of the national waste electrical and electronic products recycling, will be handed over to the local manufacturers with state-recognized recycling qualifications for recycling processing, reduce resource waste, protect the earth's natural environment.

## Packing list

After unpacking, check the following packing list. If there are any defective parts, contact the sales staff to replace them

- 1 oxygen generator
- 1 power cord
- Disposable nasal oxygen tube (trial gift) 1 pair
- 1 filter cotton
- 1 filter block
- Manual (including certificate, warranty card) 1 copy

This product reserves the right to change the technology and appearance, if there is any change, please forgive me!





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