HC30M Oxygen Concentrator

Instruction Manual



High Quality Products Global Recognizable Brand Health Oxygen , Green life

Preface

Dear customer:

Thank you for your purchasing HC30M oxygen concentrator .We will be always with you to ensure a health-friendly atmosphere for your daily life and work.We appreciate your help if you tell us your opinions on the product and service.

Please read these manual carefully to understand quickly and thoroughly how to use your new concentrator. Look after this document so that you may consult it in future or pass it on to any future owner.

This document explains and stipulates the operating conditions and testing results of the performance properly, specifications, temperature and humidity of the oxygen concentrator.

Refurbishing brain activity
Energizing physical conditions
Rich oxygen generation for skin care
Relaxing sub-health status caused by fatigue
Reducing hazards of cigarettes and alcohol

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Section A: State-of-the-arts design and 10 function

- 1.30%±-2% concentration, life standard clean rich oxygen supply
- 2. Efficient oxygen supply
- 3. Concise film button, simplified operating procedure
- 4.Portable and light
- 5. Energy efficient, Economical Consumption
- 6. Convenient earphone breathing apparatus
- 7. Low noise, mute motor, physical oxygen generation

8.Safely broad-spectrum, oxygen concentration satisfying varied demands

9.Ergonomic Design, harmonious airflow

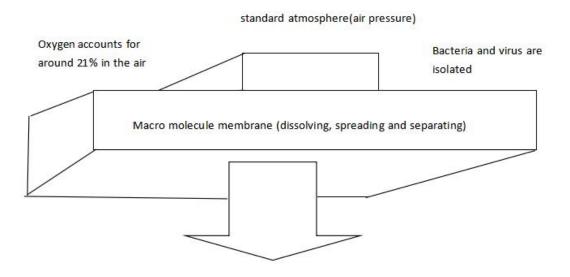
10. Standard parts: worldwide voltage adapter

Optional parts: specialized chargeable battery and charger, suitable for raveling and household use.

---What can be better than it?

Section B: The Latest membrane separation technology

As dissolving penetration rate of molecules in membrane is different, the techno can separate oxygen and nitrogen molecules from each other for generation around 30%+/-2% concentration oxygen.



Generating 30%+/-2% high oxygen aseptic air

1. In cooperating the latest biological membrane separation method for rich oxygen generation based on the theory of different dissolving penetration rate of molecules in membrane.

2. The appliance generates pure rich oxygen.

3. Macromolecule membrane can fully filtrate harmful substances in the air, such as dusts, virus and bacteria, and refresh the air with rich oxygen, environmentally and health friendly.

Completely physical rich oxygen supply, much safer, more environmental and health friendly

Section C : Special recommendation for 8 groups of potential cnsumers

Rich oxygen, Life benefits

Regular breathing rich Oxygen increases physical ability and life activity.

1. Office working women: Skin care, maintenance to skin nutrition and elasticity and reduction of sub-health status.

2. Aged: Prolonging life, improving immunity, preventing disease ,oxygen therapy

3. Pregnant women: Beneficial to the women and helpful to fetus Development

4. Businessman: relaxing physical and metal tension, improving physical ability, reducing sub-health status and improving work efficiency.

5. Students : Improving remembrance , refreshing and reducing mental fatigue .

6. Workers : Releasing fatigue , refreshing and increasing physical ability .

7. Patients: Increasing the auxiliary treatment of Cardio-cerebral vascular diseases, diabetes and respiratory diseases.

8. Plateau tourism / Mountain climbing lovers: Releasing the symptoms of lacking of oxygen on plateau.

Mini oxygen plant resolves the oxygen supplement problem

Section D: Features

1. Styled design, selected material, compact structure, simplified ear-phone shaped oxygen.

2. Mild airflow supplied for a harmonious atmosphere.

3. Advanced technology incorporated for precise oxygen concentration control to 30+/-2% for rich oxygen achievement.

4. Simplified concise control system with intensive design under the control of only 1 knob.

5. International standard adapter (100-240v) safely withstands serious change of power pressure and frequency.

6.Furnished with Chargeable battery can be used at home, in a car and even the place without power supply.

7. Direct Currency and brushless motor ensuring quiet running and economical power Consumption. Vector frequency conversion bringing powerful driving.

Section E: Functions

1. Mechanical Principles

This machine incorporates physical mechanism to generate and supply rich oxygen of 30+/-2% concentration by the means of vacuum pump and macromolecules.

2. Application

Ambient temperature: 5~40°C Humidity:below90%RH

3. Storage

Ambient temperature: 0~40°C Humidity:below80%RH

4. Control Button

Caution: This appliance should be kept away from dusts and oil vapor. If the appliance is operated in an area where temperature and humidity values are beyond required degree, or altitude is high,oxygen concentration and airflow might be affected.

Section F: Safety Precaution

1. Don't stop the appliance by directly disconnecting the power supply,

2. Children or handicapped should be looked after while the appliance is in operation in order to avoid physical hazards.

3. Ensure that the area is well ventilated while the appliance is in operation.

4. Keep the fan and side air inlet clear from obstacles and clean the filter regularly depending on the usage frequency, but never be over6 months.

5. Damaged electrical cable must be replaced by the wire designated or provided by authorized distributor or the manufacturer.

6. Prevent any liquid substance from entering the appliance. If this happens, cease the operating appliance and contact competent technicians for repair.

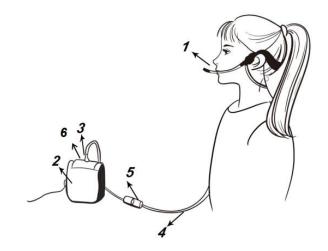
7. Do not tilt the appliance when the appliance is in operation to avoid collision between the compression pump and case, excessive noise and wobble.

▲ The adapter and the chargeable battery are specialized for the appliance. Change to other specifications will result in uncertain operation or damage to generating unit

Section G: PARTS

Parts for the whole unit :

- 1. Oxygen breathing apparatus
- 2. Oxygen concentrator unit
- 3. Oxygen outlet
- 4. Oxygen hose
- 5. Water oxygen separator
- 6. Operating button



Section H: Operating Guide

- 1. After unpacking, assemble the oxygen concentrator
- 2. Connect all the parts the holder frame to the oxygen outlet of the generating unit

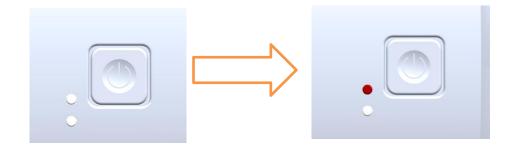
with the oxygen hose.



3. Connect the device to the power supply as shown



4. The light as shown in the figure will be displayed on the switch indicator. The red light indicates that the oxygen generator is powered on



5. Short press the button to start, the indicator light is green and red steady on, oxygen generator will run continuously for 20 minutes; Long press the button, the indicator light will show the red light on, the green light flashing, oxygen generator will carry out two 20-minute timed operation, during the interval of 5 minutes.

Section I: Functions

1. The housing of the appliance is smooth and glossy and should be prevented from scratches by sharp edges.



2. For cleaning of the appliance, soft cloth damped with water can be used. Never use corrosive or organic solvent. Otherwise the cleaned surface will lose luster.

3. When the generating unit finishes the operating, disconnect the power supply promptly.

4.Do not modify the appliance to avoid influencing the outlet and inlet of the air and resulting in negative effect to the appliance performance.

5. Only authorized technician can handle the interior piping system.

6. If the appliance does not work properly, check the appliance under the guide of

Trouble Shooting. If the trouble shooting does not work contact the local retailer for technical resistance. If the appliance is beyond warranty coverage, cost fee will be charged for replacement parts and materials.

7. Water build up in the capsule should be immediately.

8. The filter of the generating unit should be cleaned regularly , usually once every 3 months. Remove the filter, then clean the filter with detergent and rinse the filter with clean water finally dry it and reinstall it.

Section J: Trouble shooting

1.Only in initial period, the generating unit and oxygen hose might produce slight ardor.

2. If the appliance is not placed on solid place, excessive noise might be generated.

3. Tilt, upend the appliance, excessive noise and wobble might be generated.

4. The generating unit might be stopped power supply by adapter to protect the system in along time operation. The appliance will continue to operate in several minutes

5.When it does not work, pay attention to the blinking status of part of the button indicator.

(1) The red light flashing twice indicates undervoltage.

(2)The red light flashing three indicates overvoltage

(3)Red light flashing four times: blocked (startup failure)

(4)Red light flashing 6 times: short circuit protection (normally will not occur, generally motor short circuit or circuit board burning).

Section K: Technical Information

- 1.Oxygen Concentration: 30%±2% 6.Product Size: 160x130x70(mm)
- 2. Airflow outlet: About 3L/min
- 3.Oxygen Supply: Directly supply

4.Voltage: AC100V-240V/DC10.8V-19V

- 5. Power Consumption: 19W
- 9. Carton Size: 39 cm x 27.5 cm x 12cm

7.Noise: \leq 42dB(A)

8. Net Weight : 0.84kg

Section L: Oxygen and health

Oxygen accounts for the largest porting in the globe and about21% in the air. However, due to increasingly serious air pollution, especially in some industrial cities, fresh air with sufficient content of oxygen is unlikely available. This situation has resulted I hypoxia which is one of major causes of many diseases.

1. Arterial PO2 fall, a symbol of aging and sub-health

Age	Arterial PO2(X±S.mhm)
21-30	91.3±1.3
31-40	88.1±1.2
41-50	83.2±1.1
51-60	81.7±1.4

Arterial PO2 fall is a symbol of aging and sub-health

Arterial PO2 fall may cause dysfunctional symptom of brain, heart, liver and kidney, as well as sub-health and pathological changes.

2. Physica1 effect of Oxygen concentration Rich Oxygen vital to health Rich oxygen vital to health

Environment	%	Effect and Result
	Over 90	Oxygen intoxication(long time), medical
	65-85	oxygen intoxication(long time) recovered after active
		physical exercise(short time)
	50-60	Maximized concentration for physical exercise
	36-50	Fatigue relief after light physical exercise (short time)
oxygen generator	approx.30	Increase of physical ability and life energy
Grandness	22	Proper relaxation
Forest	21	Proper relaxation
Outdoor urban on average	20.9	Standard atmosphere centralization
indoor urban	20.5	Basic value of air supply
indoor urban(night)	20.2	
10.20	19-20	Discomfort besuited by CO increase cue to imperfect
19-20		combustion
Patient ward	18.5	Headache long time
Sauna	18.0	Worst labor safety and health, danger to alder
	15-16	Increased breathing count due to hypoxia
	13-15	Potential inducement fade away
	12.0	Short time danger
	Less than 7.0	Death

Section M: Rich Oxygen and health

• Rich oxygen for skin care

Tiresome work pressure makes women wan and sallow, and easy to get tired. Regular breathing of rich Oxygen may accelerate blood circulation of skin and metabolism of skin tissue and, the more importantly, discharge of toxic substances and waste and supplement of water, resulting in healthier and elastic skin.

• Rich oxygen and ageing

During the period of senility, the pathological functions will deteriorate.

The oxygen delivery ability will become weak, resulting less absorption and inefficient utilization of oxygen. In such case the whole body will enter chronic hypoxia state with the following symptoms:

The cardiovascular system cell, oxygen therapy is only2 liters per minute much lower than standard volume of4 liters per minute; respiratory system. Decreased breathing function, alveolus residual volume of the people aged60 doubles that of those aged30; the center system function turbulence, resulting metastasis changes and blood and oxygen supply disturbance to brain and cardiac muscle sand high blood pressure and atherosclerosis.

Rich oxygen breathing in long period can slow the ageing process and release weakness, tiresome status, chest oppression, head throb, consultation and faintness .Especially when someone becomes raging and exciting, oxygen breathing may immediately release symptoms of angina, myocardial infarction, cerebral thrombosis and apoplexy.

•Rich oxygen and health of pregnant women and fetuses and newly Bon babies

Pregnant women need to absorb more nutrition and oxygen to satisfy the requirements of metabolisms and as a result, burden of heart and lungs is increased. This may result in shortage of blood and oxygen supply .Medical research achievements indicate that intrauterine oxygen status plays a significant role in fetus IQ development. From this point of view, oxygen breathing during pregnancy period is beneficial to both adult and baby.

•Rich oxygen for health of brain workers

Brain consumes20~30% of oxygen the whole body requires. Excessive brain work and tense nerves will increase oxygen consumption.

The essence and symptom of sub-health status is hypoxia. Longtime brain work wil1 result in fatigue, faintness, dizziness and headache due to hypoxia.

Oxygen breathing has been widely experienced by office workers in developed countries as rich oxygen may increase the energy, accelerate metastasis, slow ageing process and improve physical condition.

•Rich oxygen and student IQ

in an experiment, some students in the same class were divided into two groups. One group of students were required for oxygen breathing and another were not. After a certain period, an examination was conducted for the two groups of student the group of students of oxygen breathing scored486 points on average and the other group of students scored 452.

•Rich oxygen and workers

Overdrive physical work will cause hypoxia of organs and buildup of lactic acid in muscles. In such case, soreness and dynamic (due to excessive fatigue after active physical exercise or labor) maybe felt. In medical theory, this symptoms called "Muscle Hungry".

Oxygen breathing may help decrease lactic acid buildup, improve hypoxia status, eliminate fatigue, accelerate physical recovery and improve work efficiency.