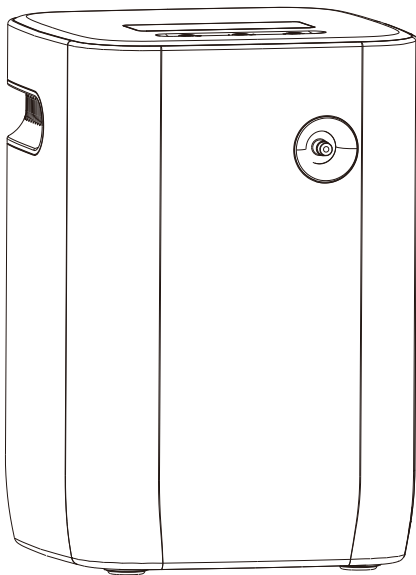


Homecare Oxygen Concentrator

User manual

This manual is suitable for 110V power supply



Revision: V1.1

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Model: ☐ YK-OXY108

☐ YK-OXY108N

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1. Safety

1.1 Security information

- Please read this instruction manual carefully before use
- The Company reserves the right to interpret the specification
- The appearance of the product shall be subject to the physical object
- This device is suitable for oxygen supplementation and can not be used as life support or life

continuation!

● Smoking is strictly prohibited when using this product! Do not place matches, burning cigarettes and any ignition source in the generator room. Non-flammable textiles or other materials under ordinary conditions can become flammable and burn quickly in oxygen-rich air.

- Please do not operate the product before reading or fully understanding this manual.

● If you have any problems in understanding the warning and operation guide, please contact the agent or the technical service personnel of the manufacturer, and do not operate the product by yourself. Otherwise, it may lead to serious personal injury or property loss.

● The oxygen generator is developed and produced by our company. Please use with accessories. Except for the standard optional accessories, the accessories produced by other manufacturers have not been tested by the company, which may affect the performance of this product and is not recommended to use with this product.

● Do not dismantle the machine. If there is any need, please contact the manufacturer and operate it by professionals.

● Do not contact the oxygen generator when wet. Do not use or store the machine where it is easy to fall into water or other liquids. No contact with machines falling into water or other liquids! If falling into the water, unplug the power supply immediately!

- The power cord should be kept away from the heat source or high temperature surface!

● Do not move the oxygen generator by pulling the power cord! Do not drop or insert a foreign body into any opening!

● It is strictly prohibited to plug the air intake of the oxygen generator or place the machine on the soft surface, such as bed or sofa, which may or cause air inlet □ blockage. Air intakes should be kept away from plush, hair, or similar objects.

● The oxygen generator shall be placed in the indoor ventilation place and avoid direct sunlight; the machine shall be at least 15 cm away from the walls, tapestry, furniture and similar.

● The radio frequency energy used by this machine only acts on the internal operation of the machine, so its radio frequency is so low that it is impossible to affect other electrical equipment nearby. Due to the sharp increase of the number of radio transmitters or other electrical noise sources in the place of use, serious interference caused by too proximity or too strong power of the transmitting source may interrupt the operation of the machine.

● If this occurs, check the site used for the source of interference and take the following measures to eliminate the interference:

- (1) Turn off the nearby equipment, and then turn it on again;
- (2) Change the place or location of the interfering equipment;
- (3) Increase the distance between the interference equipment and the equipment .

● Oil, oil or oil substances are prone to spontaneous combustion when exposed to oxygen under pressure. These substances must be far away from the oxygen generator generator pipeline, connections and other oxygen generator components.

● In order to achieve the optimal performance of the oxygen generator, it is recommended that each startup should be more than 30 minutes. Frequent switching of the machine in a short time will reduce the service life.

- Please keep it together with the invoice after reading the instructions
- In case of product technology or software upgrades, without prior notice

1. 2 Symbol introduction

Symbol	Meaning
	Alternating current
	Caution
	"ON" (power)
	"OFF" (power)
	Stand-by
	No smoking

	To prohibit smoking and all forms of open flame
	Separate collection for electrical and electronic equipment
	Fragile, handle with care
	This way up
	Keep dry

2. Product introduction

2.1 Measuring principle

This series of oxygen generator is a high quality molecular sieve as adsorbent through the pressure change adsorption method (PSA) directly from the air to produce the standard oxygen.

2.2 Intended purpose

For families and individuals to produce oxygen, used for health care, beauty care.



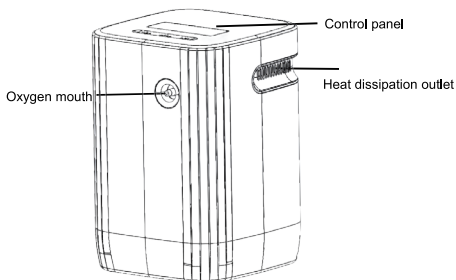
Warning: can not be used for medical use, not suitable for surgery, emergency and critical patient rescue and life continuation!

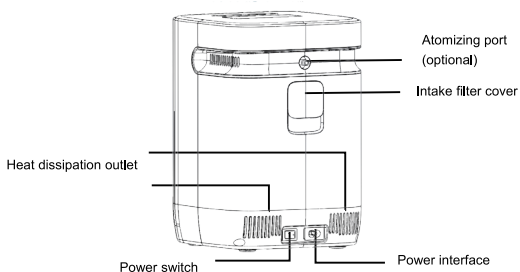
2.3 Contraindications

Patients with oxygen poisoning and oxygen allergy are prohibited.

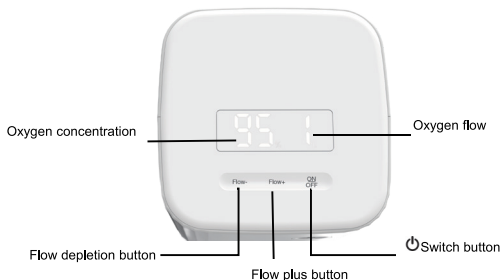
2.4 Product Structure

The oxygen generator volume is small, light weight, low power, low noise, simple operation.





2.5 Display introduction



Remote controller

2. 6 Product Functions

Feature Model	Digital display	Oxygen generation	Atomization	Oxygen flow regulation	Remote Control (optional)
YK-OXY108	√	√	×	√	√
YK-OXY108N	√	√	√	√	√

√ : Covered parameter function.

× : not covered parameter functions.

3. Installation and use

■ Before use

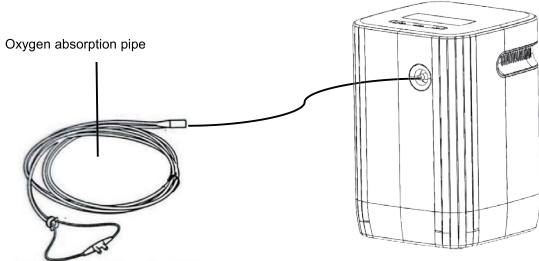
1. Take out the oxygen generator from the packing box and remove **all** the packaging materials.

2. Connect the power cord: first determine that the power switch of the oxygen generator is closed, connect one end of the power cord to the power interface of the oxygen generator, and the other end is connected to a safe socket with power output. No power extension line is **allowed**.

■ Use operation

Press the power switch to "I", then press the "ON OFF" on the control panel, and the oxygen generator icon lights up into normal operation. When the oxygen generator works, Every few seconds it makes a "ta-pooof" sound., which is the normal sound of ventilation and exhaust. Connect one end of the oxygen tube to the outlet, and wear the other end with the patient to start oxygen.(as shown in the figure)

Note: The oxygen concentration reaches a stable value in 30 minutes of initial start-on.



■ Flow setting

Press "flow -" to reduce the oxygen flow, and press "flow +" to increase the oxygen flow.

■ Power Off

If oxygen needs to stop, close the display panel switch to stop oxygen supply. First unplug the oxygen pipe or connection pipe from the outlet, turn off the power switch, and then unplug the power plug.

■ Remote Control Operation

The oxygenerator can be operated remotely through the remote control. the remote control function remains consistent with the oxygenerator control panel. When the "Flow" key is pressed each time, the oxygen flow can be adjusted. Please alignment the remote controller to the control panel before clicking the panel. The oxygenerator will make the corresponding function adjustment according to the key function.

4. Maintenance



Cut off the power supply before maintenance of the oxygen generator

1、Clean the machine

Wipe and clean the outside of the casing at least once a month: first, cut off the power supply, and wipe it with a clean and soft micro-wet cotton cloth or sponge, and do not penetrate the liquid into the gap of the chassis.

2、Wash or replace the intake air intake filter sponge

- (1) Cleaning and replacement of the intake filter sponge is very important to protect the compressor and molecular sieve and prolong the life of the oxygen generator. Please clean and replace it in time.

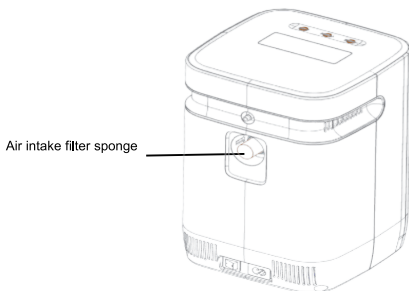


Warning: Do not operate the oxygen generator when the intake filter sponge is not installed or wet, which will damage the machine.

- (2) The intake air filter sponge is generally cleaned or replaced every 500 hours

- (3) Replacement method of the air intake filter sponge:

a. Located at the back side of the machine, remove the intake air filter cover outward



b. After the intake filter cover is removed, the intake filter sponge can be removed. The actual replacement time should be determined for the intake filter sponge according to the actual use time and environmental impact. If the oxygen outlet flow is significantly reduced, the intake filter sponge should be replaced regardless of the length of use.

- (4) Cleaning method: first clean with light detergent and rinse with water, must be dry, and then installed on the machine.

3、Clean the nasal oxygen tube

The nasal oxygen tube is a disposable product. If reused, it should be cleaned after each use. It can be soaked in white vinegar for about 5 minutes and cleaned with clean water, or wiped with medical alcohol. (Note: The nasal oxygen tube should be kept dry during cleaning.)

5. Common faults and solutions

Error	Analyze	Solution
Turn on the power switch machine does not work	1. Poor contact between the power plug and the socket	1. Plug the power cord firmly
	2. the socket has no power output	2. Move to the socket with power output
	3. Main board damage	3. Replacement by professionals
After starting the machine operation sound is normal, the flow gear adjustment is normal, but the oxygen output is very small or no	1. Whether there are defects in the oxygen suction apparatus	1. Replace the oxygen inhalation equipment
	2. The intake filter sponge is dirty and not cleaned or replaced in time	2. Clean or replace the air intake and filter sponge
Start-up work for a period of time, the machine temperature is high or stop	1. The oxygen outlet is blocked	1, the oxygen generator should be placed in the indoor ventilation place, at least 15cm away from the wall, tapestry, furniture, etc
	2. The intake filter sponge is dirty and not cleaned or replaced in time	2. Clean or replace the air intake and filter sponge
	3. The machine temperature is too high	3, when the machine leaves the factory, there is a high temperature protection device, if the temperature is over, high and automatic shutdown phenomenon, close the oxygen generator switch, and then check whether the inlet and exhaust ports is blocked, whether the intake filter sponge is dirty, when the machine temperature decreases, restart.
Regular and slight "ta-poo" exhaust sound	Normal	The sound of oxygen extraction and exhaust gas belongs to a normal working phenomenon
Nasal oxygen tube inner wall fog or water droplets	1. In winter, there will be a certain temperature difference inside and outside the nasal oxygen tube, and the temperature difference will lead to the condensation of water in oxygen, so that liquid water droplets appear in the wall of the nasal oxygen tube	1. This is a normal phenomenon. It is recommended to clean the nasal oxygen tube before each use; if fog or water drops occur in the tube for many times; please contact your supplier
	2. There is no complete ventilation around the machine, resulting in the high working temperature of the oxygen generator	2. Make sure that there are no curtains and other blockages around the machine, and ensure that at least 15cm is above

6. EMC electromagnetic compatibility

Statement:

- The product user should use the product in the electromagnetic environment specified in the following table, otherwise it may cause abnormal operation of the product.
- Warning: Use of this product adjacent to or stacked with other equipment should be avoided because it could result in improper observed to verify that they are operating normally.
- Warning: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
- Warning: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30cm (12 inches) to any part of the product, including cables specified by the manufacturer. Otherwise, degradation of the performance of this product could result.

Guidance and manufacturer's declaration – electromagnetic emission – for all EQUIPMENT AND SYSTEMS

The device meets the requirements of IEC 60601-1-2. All the accessories listed in Appendix A also meet the requirements of IEC 60601-1-2 when in use with this device.

Guidance and manufacturer's declaration – electromagnetic emission		
The product is intended for use in the electromagnetic environment specified below. The customer or the user of product should assure that it is used in such an environment.		
1	Emissions tests	Compliance
2	Radio frequency (RF) emissions CISPR 11	Group 1
3	RF emissions CISPR	Class B
4	Harmonic emissions IEC 61000-3-2	Class B
5	Voltage Fluctuations/Flicker Emissions IEC 61000-3-3	Compliance

**Guidance and manufacturer's declaration – electromagnetic immunity –
for all EQUIPMENT and SYSTEMS**

Guidance and manufacturer's declaration – electromagnetic immunity		
The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product should assure that it is used in such an environment.		
Immunity test	EN 60601 test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 15 kV air	± 8 kV contact ± 15kV air
Electrostatic transient / burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines 100KHz	±2 kV for power supply lines ±1 kV for input/ output lines
Surge IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth 0°,90°, 180°, 270°	±1 kV line(s) to line(s) ±2 kV line(s) to earth
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% UT for 0.5 cycle at 0°, 45°,90°,135°, 180°, 225°, 270° and 315° 0% UT for 1 cycle at 0° 70% UT for 25/30 cycles at 0° 0% UT for 250/300 cycles	0% UT for 0.5 cycle at 0°, 45°,90°,135°, 180°, 225°, 270° and 315° 0% UT for 1 cycle at 0° 70% UT for 25/30 cycles at 0° 0% UT for 250/300 cycles

Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30A/m
NOTE U_T is the a. c. mains voltage prior to application of the test level.		

**Guidance and manufacturer's declaration – electromagnetic immunity –
for EQUIPMENT and SYSTEM that are not LIFE-SUPPORTING**

Guidance and manufacturer's declaration – electromagnetic immunity		
The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product should assure that it is used in such an environment.		
Immunity test	EN 60601 test level	Compliance level
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz outside ISM bands ^a	3Vrms
	6 Vrms 150 kHz to 80 MHz in ISM bands ^a	6 Vrms
Radiated RF EM fields IEC 61000-4-3	3V/m 80MHz to 2.7GHz	3 V/m

**Table 4 - Test specifications for enclosure port immunity to RF wireless
communications equipment**

Test frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation ^{b)}	Maximum power (W)	Distance (m)	IMMUNITY TEST LEVEL
385	380 -390	TETRA 400	Pulse modulation ^{b)} 18 Hz	1,8	0.3	27
450	430 -470	GMRS 460, FRS 460	FM ^{c)} ± 5 kHz deviation	2	0.3	28
710	704 -787	LTE Band 13,17	Pulse modulation ^{b)} 217 Hz	0,2	0.3	9
745						
780						
810	800 - 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation ^{b)} 18 Hz	2	0,3	28
870						
930						
1 720	1700-1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3 4, 25; UMTS	Pulse modulation ^{b)} 217Hz	2	0,3	28
1 845						
1 970						

2450	2400-2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation ^{b)} 217 Hz	2	0,3	28
5240	5100-5800	WLAN 802.11 a/n	Pulse modulation ^{b)} 217 Hz	0,2	0.3	9
5500						
5785						

NOTE:

If necessary to achieve the immunity test level, the distance between the transmitting antenna and the me equipment or me system may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.

a) For some services, only the uplink frequencies are included.

b) The carrier shall be modulated using a 50 % duty cycle square wave signal.

c) As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

7. Product specification

7.1 Product Parameter

Power source	AC110V±11V,60Hz
Input power	≤135W
Product weight	5kg(Host)
Product size	200*202*290mm (Host)
Minimum working time	No less than 30 minutes
Operation mode	Continuous duty
The machine noise	<60dB(A)
Oxygen concentration	Oxygen flow :1 L/min, Oxygen concentration ≥90%; Oxygen flow: 2 – 7 L/min, Oxygen concentration : 70 – 26%, Tip: the length of the oxygen suction tube should not exceed 11 meters, and should not fold down
Flow range	The nominal outlet pressure is 7 kPa: (1~7) L / min

Work environment	Ambient temperature range: 10℃ ~40℃ Relative humidity range: ≤80% Range of atmospheric pressure: 860 hPa ~ 1060 hPa The surrounding environment has no corrosive gas and a strong magnetic field
Transportation and storage environment	Ambient temperature range: ~20℃ ~ + 55℃ Relative humidity range: ≤93%, and no condensation Atmospheric pressure range: 500 hPa ~ 1060 hPa
Oxygen outlet temperature	≤46℃
Safety system	Current overload, shutdown; Power cord connection is loose, and alarm; Compressor at high temperature, shutdown
Product life	Five years
Maximum continuous operation time of molecular sieve	8000 hours



Note: The oxygen generator should be stored in a room without strong sunlight, corrosive gas and well-ventilation. During transportation, avoid violent vibration and inverted lying.

7.2 Components



When opening the box, first check the following packing list. If there are defective parts, please contact the sales staff for replacement

NO.	Components	Quantity
1	Oxygenerator	1
2	Power line	1
3	Air intake filter sponge	1
4	User Manual	1
5	Remote controller (Optional)	1

8. After-sale service

If the quality problems of non-human factors occur within one week from the date of sale, the Company shall be responsible for the return, replacement and warranty; under the condition of the normal use and storage of the product, the company will provide free maintenance (the warranty period of the compressor is three years); and the user can provide the maintenance of the parts and charge reasonable charges. If the user cannot provide the invoice, the warranty period shall be extended by the company number or factory date for one month.

- ① Fault caused by the failure to operate as required;
- ② Damage not caused by the removal of the company's maintenance personnel;
- ③ Failure, scratch or damage caused by the movement;
- ④ The fault caused by the user's disassembly, disassembly and assembly of the product;
- ⑤ Normal damage of vulnerable parts and consumable parts (atomized components, air intake

filter sponge);

- ⑥ Fault and damage caused by force majeure (earthquake, etc.).

It reserves the right to change the technology and appearance of the product, if any change, without notice, please forgive me!