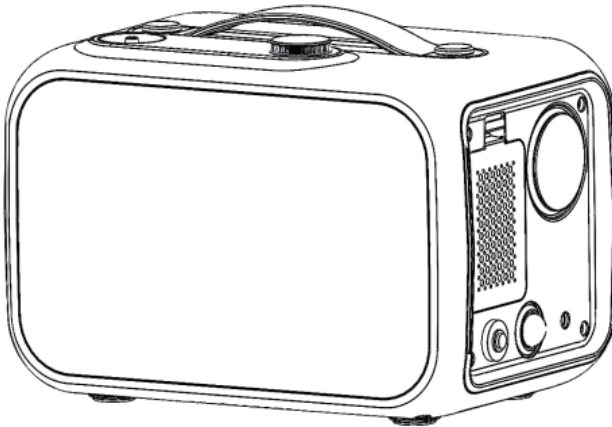


Car oxygen concentrator

User manual



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1.Safety

1.1Safety Information

①To prevent power failure or possible failure of oxygen concentrator, the urgent oxygen users and critically ill patients must be equipped with other backup oxygen supply devices (such as oxygen cylinder, oxygen bag, etc.)!

②This product cannot be used for life support and life extension purposes, and is not suitable for use with newborns and infants!

③Do not be used for medical use, not for surgery, first aid and critically ill patient rescue and life extension!

④Oxygen concentrator is developed and produced by our company, please use together with the attachment. Except for standard optional accessories, accessories produced by other manufacturers have not been tested by our company, which may affect the performance of this product, and are not recommended to be used together with this product.

⑤Important Information

- Do not disassemble the machine without authorization considering the risk of electric shock. Refer servicing to qualified service personnel.

- Please read the following contents carefully before operating the product.

- Seek medical advice before using the device.

⚠ Oxygen has a combusting effect, oxygen concentrator should be away from the open fire and heat source, in the vicinity of the user is strictly prohibited smoking and open fire. Also do not use oil or grease in and around the oxygen concentrator. Fabrics or other materials that do not burn easily under normal conditions become flammable and burn quickly in oxygen-rich air.

⚠ Do not disassemble without permission. Unplug the power supply before cleaning and wiping to prevent electric shock. If necessary, seek the help of professional technicians.

⚠ Before using the car adapter, the product must be separated from the car cigarette plug.

1.2 Symbols and descriptions

Symbols	Descriptions	Symbols	Descriptions
	Caution		Alternating current
	ON (power)		OFF (power)
	No smoking		No smoking
	Fragile, handle with care		CLASS II equipment
	Humidity limitation		Keep dry
	Manufacturer		Up toward
	Date of manufacture		Temperature limit
	Stacking limit by number		Separate collection for electrical and electronic equipment

1.3 Waste disposal

1) Pre-installation

· Please select a safe and qualified socket and a wiring board with safety electrician certification!

⊗ The enclosure shall not be disassembled by any person not authorized by the company.

2) Placing Sites

· When the car oxygen concentrator is used in the car, it should be noted that the bottom heat dissipation port can not be blocked to keep the car ventilated.

· Oxygen concentrator should be placed away from pollution and waste gas.

⊗ Do not place the oxygen concentrator in an environment where airflow is obstructed.

⊗ The oxygen concentrator shall not be placed in the following environment: places near heat source and light and dark ignition source, wet and unshielded places, and places with smoke and pollution and at high temperature or too low temperature.

⊗ Do not place containers of debris and oil on top of the oxygen concentrator, or place the oxygen concentrator where it is easy to drip water or other liquids.

⊗ It is forbidden to place any sundries on the bottom, front and rear sides of the oxygen concentrator, and to place the machine on the soft surface (such as bed and sofa) which may cause inclination or sinking, so as to prevent the shutdown or oxygen concentration drop due to the temperature caused by the blockage of air inlet and exhaust ports.

3) Fire Warning or Explosion

① Oxygen concentrator should be kept away from flammable and explosive situations.

Oxygen is a combustion gas. Do not smoke during use and keep away from other flammable sources such as matches and burned cigarettes. Textiles and other normally non-combustible materials are readily ignited and strongly burned in oxygen-enriched air. Failure to do so may result in serious fire, property damage, and personal injury or death.

② The use of oxygen therapy requires special care to reduce the risk of fire. Some materials burn in the air, others do not burn in the air but ignite easily and rapidly in oxygen-rich situations. From a safety point of view, it is necessary to keep the source of ignition away from the product, and it is better to remove the product from use and place it outside the room.

③ At a certain pressure, contacting of oils, grease, or oil materials with oxygen can produce spontaneous combustion and violent combustion. These substances must be kept away from oxygen concentrator, tubing, connectors, and all other oxygen units. Do not use any lubricants other than those recommended by the manufacturer.

4) Maintenance

① Only the manufacturer's authorized distributor or trained personnel can perform preventive maintenance or performance debugging on the oxygen concentrator.

② The manufacturer recommends that each startup operation of the oxygen concentrator shall not be less than 10 minutes. Do not frequently turn on and off the oxygen concentrator, shutdown 3-5 minutes before starting up, so as not to affect the life of the compressor.

1.4 Measures for Reducing the Risks of Burn, Electric Shock, Fire Or Human Injury

- ① If the oxygen concentrator falls into water, do not touch it, immediately cut off the power supply, and contact the qualified distributor or manufacturer.
- ② For the use method of oxygen concentrator, see this manual. If the user or service personnel feel insufficient oxygen, immediately contact the supplier or manufacturer.
- ③ During use, please supervise if this product is close to children or people with inconvenient behavior.
- ④ Oxygen therapy is dangerous in some specific environments. Such as: near the heat source and light and dark fire source, high temperature, humidity, smoke or pollution environment. The manufacturer recommends that the user consult a physician before using this product.
- ⑤ Avoid sparks near the equipment, including sparks caused by various frictional static electricity.
- ⑥ Given that the oxygen concentrator power cord or plug is damaged, the machine is not working properly, and the machine is dropped or damaged, contact a qualified service person for inspection and repair.
- ⊘ After the oxygen concentrator is powered on, do not leave the machine unattended.
- ⊘ Do not use parts or accessories that are not recognized by the manufacturer as such, as these may degrade the performance of the machine.
- ⊘ Do not connect this product in parallel or in series with other oxygen concentrator or oxygen therapy equipment.
- ⊘ Keep the power cord away from heated or hot surfaces.
- ⊘ Do not move the oxygen concentrator when it is charged.
- ⊘ Do not drip or insert anything at the opening of the machine.

2. Product introduction

2.1 Scope of application

- For household and personal oxygen production, for health care.
- Product contraindications: oxygen poisoning, oxygen allergy patients prohibited.

2.2Product Features

Home plug-in use, high flow and high concentration, efficient oxygen production.

- ▶Car use, light and portable, with car plug, driving for a long time oxygen inhalation is not easy to fatigue.
- ▶With voice broadcast function, more intuitive operation.
- ▶With tired time function, the total working time is displayed through the display screen.
- ▶With negative ion function, negative oxygen ion purification.
- ▶Knob control, simple operation, high-end atmosphere.
- ▶ One level and two level filter can be disassembled, easy to clean and worry.
- ▶With remote control function, you can remotely operate the machine, easy to use (optional).

2.3Principle of oxygen production

This machine uses air as raw material, adopts high quality molecular sieve, at normal temperature by pressure swing adsorption separation method (PSA method), produces high purity oxygen.

2.4Product model division

Type division table

Power supply Model	DC12V	DC12V/24V(common)	Gears
YK-H600	Yes	-	P1-P6
YK-H601	-	Yes	
YK-H610	Yes	-	
YK-H611	-	Yes	
YK-H620	Yes	-	
YK-H621	-	Yes	

2.5Product performance

- ▶P1-P3 gear oxygen concentration can be greater than 90%;
- ▶ Set gear and oxygen flow, oxygen concentration:

Set gear	P1	P2	P3	P4	P5	P6
Oxygen flow (L/min)	0.5	0.7	1.0	1.5	2.0	2.5
Oxygen concentration (%)	94-96	92-93	90-92	77-80	64-66	54-55

3.Product structure
3.1Schematic Diagram of the machine

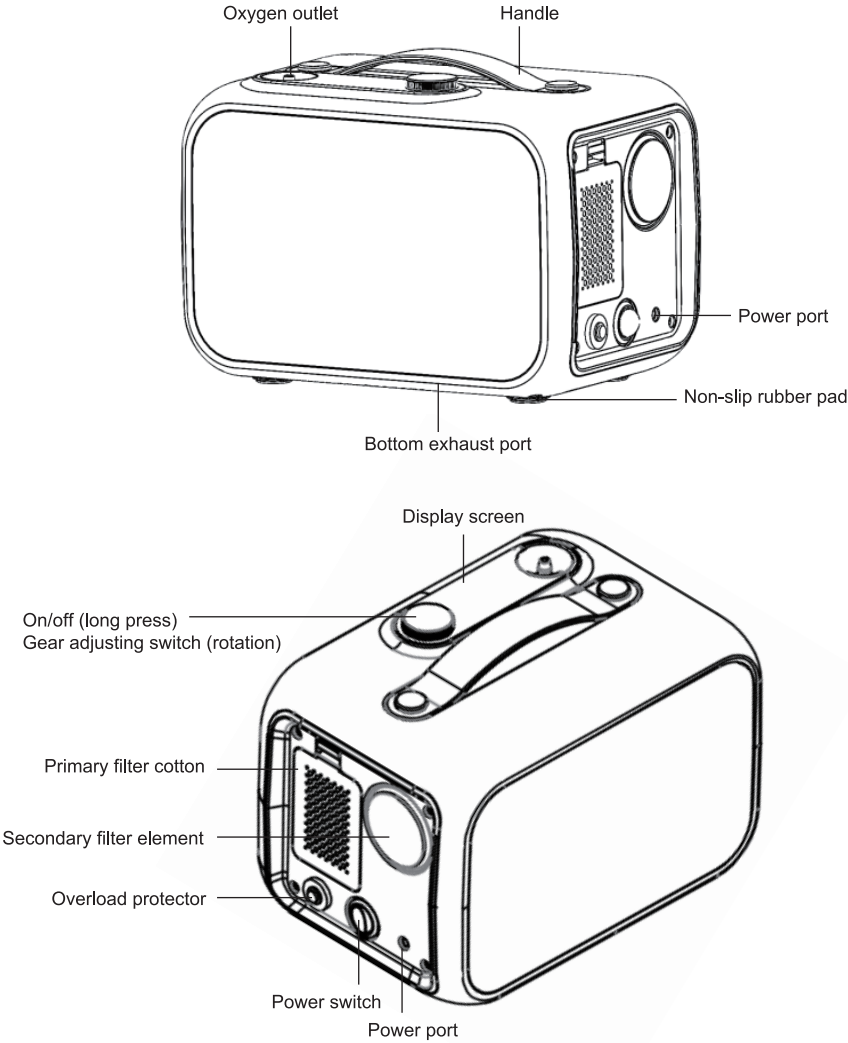


Figure 1 Schematic diagram of the machine

3.2 Display and remote control functions

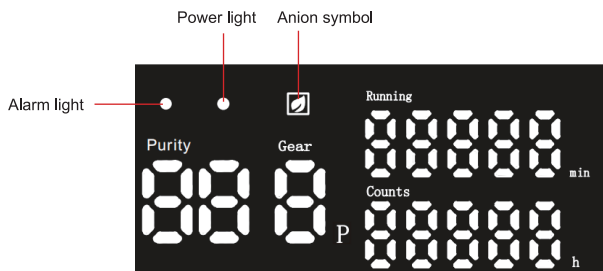


Figure 2 Display panel

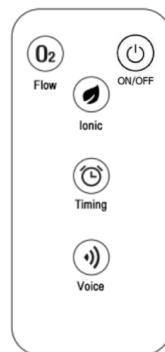


Figure 3 Remote control (optional)

4. Main technical indicators

Power supply mode	DC 12V;DC 12V/24V
Adapter	Input:100-240V 50HZ/60HZ Output:12V 10A
Operating power	80W
Size	About 250mm*158mm*155mm
Weight	YK-H600/YK-H601/YK-H610/YK-H611: About 3kg YK-H620/YK-H621: About 3.93kg
Noise	≤60dB(A)
Prevent into the liquid level	IPX0
Operation mode	Continuous operation
Operating ambient temperature	5℃～40℃
Operating relative humidity	10%～93%
Operating atmospheric pressure	86kPa～106kPa
Storage and transportation ambient temperature	-20℃～+55℃
Storage and transportation relative humidity	10%～93%
Storage and transportation atmospheric pressure	70kPa～106kPa
Electrical safety requirements	Class II
Degree of safety when used with flammable anesthetic gases mixed with air or with oxygen or nitrous oxide	Do not use in the presence of flammable anesthetic gases mixed with air or with oxygen or nitrous oxide
Service life	3 years

5.Installation and use

5.1Unpacking

- ①Inspect the carton or other packaging for obvious damage. Notify the carrier or your local distributor of any damage.
- ②Remove all bulk packages from the carton.
- ③Carefully remove all components from the carton.

 Note: Unless the oxygen concentrator is used immediately, the carton and storage packaging materials must be retained until the machine is used.

5.2 Inspection

- ① Inspect the external surface of the oxygen concentrator for damage such as nicks, dents, abrasions, etc.
- ② Inspect all components.

5.3 Storage

- ①Store the repackaged oxygen concentrator in a dry place.
- ② Do not place anything on top of the oxygen concentrator.

6.Use the operation instructions

6.1Precautions Before use

- The machine can use 12V DC power supply or 12V and 24V DC power supply. Before use, please confirm which power supply is used.
- When used in the car, the power cord with a cigarette plug can be directly inserted into the car cigarette lighter socket.
- If you use the 220V(50Hz) AC power supply in a household socket, connect the power adapter. Convert AC to 12V connection for use.
- Before use, check the socket of the cigarette lighter is clean (otherwise, the power cable socket may be damaged due to heat caused by poor contact) and that the output voltage is 12V (or 24V).

6.2Preparation

- After connecting the power adapter or the car power cable, turn the power switch to " | ", the power is connected, and the voice will announce: "Hello,Welcome to use the oxygen concentrator", at the same time, the display panel will light up in the full screen, and then the version number will be displayed in the place of "Cumulative Time", then the power indicator will be steady on, and the machine enters into standby.
- Press and hold the gear adjustment button for 2S to enter the startup state, the voice will announce "Intelligent oxygen therapy begins", the display screen shows the oxygen concentration, gear, running time and accumulated time.
- When the oxygen concentrator works, it emits the sound of "wheezing -" every few seconds, which is the normal ventilation sound.

Use the operation instructions

6.3Oxygen Inhalation Operation

- The machine starts in 1 gear by default. You can use the gear adjustment button to adjust gears P1 to P6 according to requirements. Rotate the adjusting knob clockwise to increase the gear and counterclockwise to decrease the gear, and the oxygen concentration corresponding to gear shall be displayed on the display screen. At the same time, the oxygen outlet shall have oxygen output.
- Connect one end of the oxygen inhalation tube to the oxygen outlet, and the other end (oxygen inhalation head or nasal suction head end) is well worn by the user, so that the oxygen inhalation can be started.

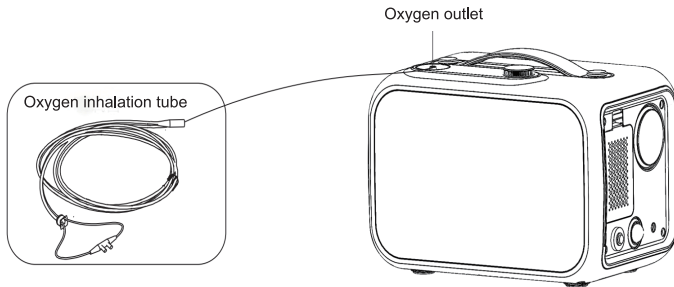


Figure 4 Schematic diagram of nasal oxygen tube connection

- ⚠ Oxygen inhalation time and oxygen flow, please follow the doctor's advice.
- ⚠ Warning: If no air is generated at the oxygen outlet, check whether the pipe is blocked or kinked.

6.4Anion operation

- The gear adjustment buttons on the control panel can turn negative ions on and off.
- Press the gear adjustment button, the negative ion symbol lights up, and the voice announces: "Negative ion on". Press the gear adjustment button again, the negative ion is closed, the negative ion symbol is extinguished, and the voice is announced: "negative ion is closed".

6.5Shutdown

- If you need to temporarily stop oxygen inhalation during use, you can press the gear adjustment button to stop oxygen supply.
- During use, press and press the gear adjustment button, the machine is on standby, and the voice will announce: "This oxygen therapy is over".
- After use, turn the power switch to "○" to turn off the power, and then unplug the power adapter or car power cable. Remove the nasal oxygen tube or connecting tube from the oxygen outlet.

6.6Remote Operation (Optional)

- You can remotely operate the machine through the remote control. Its key function is the same as that on the control panel of the oxygen concentrator.
- Note: When the remote control is operated, it must be in front of the remote control receiving window.
- Note: This product does not include timing function.

7.Maintenance and cleaning

Warning

Disconnect the power supply before servicing the oxygen concentrator. To avoid electrical shock, do not disassemble the housing.

7.1Cleaning the Enclosure

The exterior of the enclosure should be wiped clean at least once a month: first cut off the power supply and wipe it with a clean and soft moistened cotton cloth or sponge, without penetrating the liquid into the crevices of the enclosure.

7.2Replace the Primary Filter Cotton

Replace the primary filter cotton: Open the primary filter cover on the side of the machine and take out the primary filter cotton. Install a new primary filter cotton and reinstall the primary filter cover. Dispose of the waste filter wool properly.

 A large amount of dust accumulates on the primary filter cotton after long-term use. Perform this operation with caution to avoid inhaling dust.

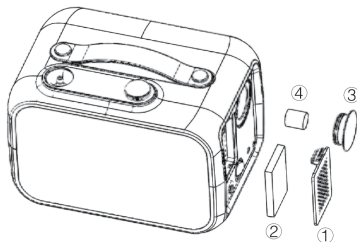
7.3Replace the Secondary Filter Element

After 300 hours of accumulated work, the filter element should be cleaned. The cleaning and replacement of the filter element is very important to protect the compressor and molecular sieve and extend the life of the oxygen concentrator. Please clean and replace it in time.

► Disassembly: The filter element is located on the side of the machine, and the secondary filter cover plate on the side can be opened to take out the filter element directly. The filter element should determine the actual cleaning time according to the actual use time and environmental impact.

If the filter surface is black, regardless of the use time, it should be replaced immediately.

► Cleaning: First clean with light detergent and rinse with water, must be dry before installation on the machine.



- ①Primary filter plate
- ②Primary filter cotton
- ③Secondary filter plate
- ④Secondary filter element

Figure 5 Filter module diagram

 Do not operate the oxygen concentrator when the filter element is not installed or wet, which will cause lasting damage to the machine.

 The filter element and filter cotton are consumables. Contact the device supplier to purchase replacement materials.

7.4Replacing the nasal oxygen Tube

Nasal oxygen tube is a disposable product, such as repeated use, should be cleaned after each use. It can be soaked in white vinegar for about 5 minutes and then washed with water, or wiped with medical alcohol. It is recommended to replace the nasal oxygen tube every 2 months.

(Note: nasal oxygen tube should be kept dry.)

Users can purchase a replacement nasal oxygen tube according to their needs. It is recommended that the length of the replacement nasal oxygen tube should not exceed 3 meters. An excessively long nasal oxygen tube may lead to oxygen loss and reduced flow rate.

Common troubleshooting methods

8.Common troubleshooting methods

Fault phenomenon	Fault analysis	Handling method
Turn on the power switch and the machine will not work	1.The power plug is in poor contact with the socket	1.Plug the power cord securely
	2.Socket has no power output	2.Move to an outlet with power output
	3.Main board damage	3.Replaced by a professional
After starting the machine, the sound of operation is normal, the flow gear is adjusted normally, but the oxygen output is very small or no oxygen output	1.Nasal oxygen tube is defective	1.Replace the nasal oxygen tube
	2.The filter cotton and filter element are dirty and not cleaned or replaced in time	2.Clean or replace the filter cotton and filter element
Boot work for a period of time, the machine temperature is high or shut down	1.Oxygen outlet blocked	1.When used in the car, it should be noted that the bottom heat sink can not be blocked to keep the car ventilated
	2.The filter cotton and filter element are dirty and not cleaned or replaced in time	2.Clean or replace the filter cotton and filter element
	3.Excessive machine temperature	3.When the machine leaves the factory, there is a high temperature protection device, such as the temperature is too high and automatic shutdown phenomenon, turn off the oxygen concentrator switch, and then check whether the inlet and exhaust port are blocked, and whether the filter element is dirty, until the machine temperature decreases, restart
A regular, slight " Splosh, splosh" exhaust sound The inner wall of the nasal oxygen tube is full of mist or water droplets	Normal	The sound of oxygen extraction and exhaust gas is a normal working phenomenon
The inner wall of the nasal oxygen tube is full of mist or water droplets	1.In winter, there will be a certain temperature difference inside and outside the nasal oxygen tube, which will lead to condensation of water in the oxygen, resulting in liquid water droplets in the nasal oxygen tube wall	1.This is a normal phenomenon, it is recommended to clean the nasal oxygen tube before each use; If fog or water droplets occur repeatedly in nasal oxygen tubes; Please contact your supplier
	2.There is no complete ventilation around the machine, resulting in high working temperature of the oxygen concentrator	2.Ensure that there is no drapery and other blockages around the machine, at least 20cm

Note: If the oxygen concentrator fault cannot be removed, please contact the supplier or manufacturer.

9.After-sales service

9.1Note

1. Within one week from the date of purchase of this product, non-human factors of quality problems, the company is responsible for return, replacement, repair; In the case of normal use and storage, this product from the date of purchase within one year of the problem, the company will give free maintenance (excluding molecular sieve and other consumables); If the product has a quality problem one year after the date of purchase, the user can go to the company's after-sales service department, authorized office or distributor for repair with the invoice and warranty card, and collect the appropriate material costs, labor costs and transportation costs.

2. The following conditions are not covered by the warranty:

- ①Vulnerable, consumable products: nasal oxygen tube, filter element, molecular sieve;
- ② The user causes water, drugs and other liquids to enter the machine can not work normally;
- ③The whole machine water or rain;
- ④Failure caused by disassembly, repair and transformation of the product without authorization;
- ⑤Failure caused by careless fall in the process of use and handling;
- ⑥ Failure caused by failure to operate in the correct way according to the instructions;
- ⑦ Damage caused by unforeseen natural disasters (such as fire, earthquake, flood, etc.);
- ⑧Machine damage caused by not replacing the filter element;

3. Professional maintenance personnel who are not from the company's after-sales service department, authorized offices or dealers shall not disassemble the casing and repair the oxygen concentrator.

9.2Components

NO.	Components	Quantity
1	Oxygen Concentrator	1 set
2	Secondary filter element	1 pc
3	User manual	1 pc
4	Certificate	1 pc
5	Primary filter cotton	1 pc
6	Car power cord	1 pc
7	Adapter	1 pc
8	Remote control (optional)	1 pc

10.Disposal of waste and residue

At the end of the life of the product will not be able to produce oxygen normally, at the end of its service life, in order to prevent uncontrolled waste disposal to the environment or human health may cause damage, please separate it from other types of waste, waste disposal, should be in accordance with local laws and regulations on environmental protection.

11.Disclaimer

If the new machine self-test found that the product does not work properly, do not use, and immediately contact the point of sale or our company's after-sales treatment.

This product reserves the right to change the technology and appearance, if there is any change, without prior notice!

