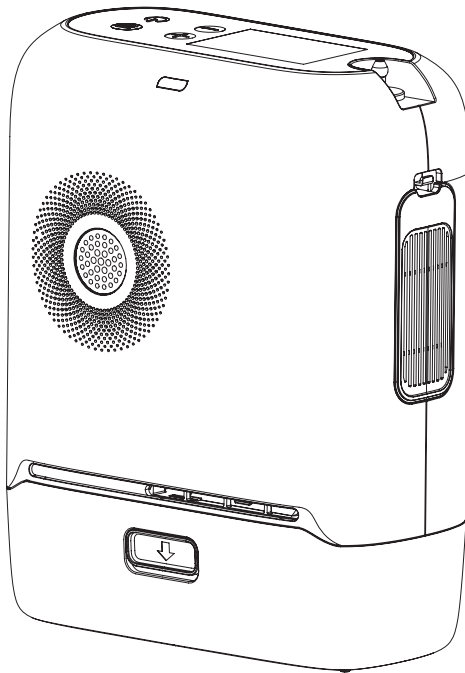


Portable Oxygen Concentrator

User manual



Introduction

Thank you for purchasing our portable oxygen concentrator! This manual describes the precautions of the product, operating procedures, basic functions and technical parameters, as well as basic troubleshooting content, will make you familiar with this product and the operation of this product. In order to ensure your effective use of this machine, please be sure to read the instructions carefully before use. Please note that some of the legends in this manual may not be exactly the same as what you see in the machine.

The oxygen tube parts mentioned in this manual should be in accordance with the specifications of the supporting products. If you have any questions about use or other matters, please contact the after-sales or authorized distributor in time.

The oxygen concentrator is generally used for patients who need oxygen, mountain climbers and high-altitude activities, and mental workers who need oxygen. It can generate high concentrations of oxygen and can be used with nasal cannula to deliver oxygen from the oxygen concentrator to the user's body. The concentrator can be used in homes, institutions, vehicles and various mobile environments.

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1. Safety

1.1 Safety information

Warning

- Measures to reduce the risk of burns, electric shocks, fire or body injury:
- Avoid using an oxygen concentrator in the shower. If necessary, follow your doctor's instructions and the oxygen concentrator must be used in a room 2.5 meters away from the bathroom.
- The recommended length of the oxygen tube should not exceed 11 meters and should not be bended.
- Do not place or store the oxygen concentrator in a place where water or other liquids are easily dripped.
- Oxygen has combustion-supporting effect, oxygen machine should be far away from open flame and ignition source. Do not use oxygen concentrator when there are objects with high temperature, spark or open flame within 1.6 meters. Do not leave the machine unattended after the oxygen concentrator is energized.
- Do not smoke while inhaling oxygen. Do not smoke or light an open flame near the oxygen inhaler.
- Improper use of power cords and plugs may cause fire or other hazards such as electric shock and burns. Do not use machines with damaged power cords.
- Before cleaning the dust of the oxygen machine shell, the power plug must be removed to prevent electric shock.
- When the machine is running, please do not open the outer casing and internal chassis of the machine at will to prevent injury caused by touching the running parts. In order to prevent the oxygen concentrator from malfunctioning or encountering power outages, those who need oxygen at all times (such as urgent oxygen users and critically ill patients, etc.) need to be equipped with other backup oxygen supply devices (such as oxygen cylinders, oxygen bags, etc.).
- This machine cannot be used to maintain any life, it is recommended that patients with aerobic therapy use this machine, the choice of flow and oxygen inhalation time, follow your doctor's guidance.
- If the patient experiences or shows discomfort or abnormal reaction when inhaling oxygen, please stop using this product immediately and contact the equipment supplier or doctor.
- For patients with serious illnesses who require additional instruction equipment or additional drug administration in conjunction with the use of this product, please consult your doctor before use and use as recommended by your doctor. If there is any adverse reaction, please inform the doctor immediately.
- Do not share the same set of oxygen tubes with more than one person, which may cause cross infection of virus or bacteria between users.
- When inhaling oxygen, do not press the oxygen tube under the bed cover or the cushion of the chair. Do not sit on the oxygen tube, so that oxygen cannot pass through the tube normally and

oxygen cannot be absorbed.

- When the product is operated without oxygen absorption, the oxygen produced will aid combustion. When no one is breathing oxygen, it is recommended to turn off the power switch and pull the plug.
- When using this product, pay attention to whether the power cord is stretched too long to prevent pedestrians from passing through.
- Users can not replace the molecular sieve by themselves, if you need to replace, please contact the manufacturer.
- Personal and home use of 93% oxygen should follow the guidance of a medical professional.
- Patients with severe lung disease should consult with a medical professional to choose the amount of oxygen to be administered.

1.2 Symbols and descriptions

Symbols	Descriptions	Symbols	Descriptions
	Caution		Alternating current
	Stand-by		Separate collection for electrical and electronic equipment
	No smoking		No open flame; Fire, open ignition source and smoking prohibited
	Fragile, handle with care		CLASS II equipment
	Humidity limitation		Keep dry
	Manufacturer		Up toward
	Date of manufacture		Temperature limit
	Stacking limit by number		Consult instructions for use

1.3 Waste disposal

The product may not be able to produce oxygen normally at the end of its use. Do not discard the product at the end of its service life, or when the nasal oxygen tube and supporting parts are used up. In order to prevent possible damage to the environment or human health caused by out-of-control waste disposal, please separate it from other types of waste.

Declaration: Inexperienced responsible parties must contact their local authorities to determine the proper disposal of discarded parts and accessories that may pose a biological hazard.

2.Product introduction

2.1 Scope of application

Using air as raw material, the molecular sieve variable pressure adsorption process is used to produce oxygen-enriched air with an oxygen concentration range of 90% to 96% (V/V) for oxygen therapy or to relieve discomfort caused by lack of oxygen. Not to be used as life-sustaining equipment.

2.2 Contraindications

Oxygen toxicity, oxygen allergy patients are prohibited

2.3 Product life expectancy

The life expectancy of the oxygen concentrator main unit (excluding molecular sieve, battery pack and filter material) is 5 years, the life expectancy of molecular sieve is 1 year, and the life expectancy of battery is 500 times full charge/discharge.

2.4 Appearance and functions



Top view of product

On / off button

Press and hold the “On/Off ”button to turn the device on or off.

Control Buttons

Use the (-) or (+) flow setting control buttons to select the setting as shown on the display.

Function button

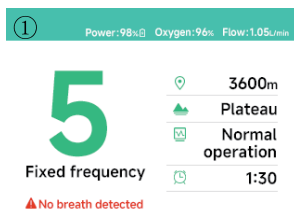
Press the function button once to enter the following interface to view or set the information or parameters of each function module.

2.5 User interfaces

Display(Figure ①)

This screen displays information regarding gear setting, battery status, oxygen concentration, altitude and error information, etc.

Actual display appearance maybe difference.



Indicator lights(Figure ②)

A green light indicates equipment operational condition.

A red light indicator either a change in operating status or a condition that maybe need response(alert).

A flashing light is higher priority than no-flashing.

Audible signals

An audible signals (beep) indicates either a change in operating status or a condition that maybe need response(alert). Mode frequent beeps indicate higher priority conditions.

Input/output connection

Primary filter cotton(Figure ③)

The primary filters on both sides must be installed at the intake end of the oxygen concentrator to keep the input air clean.



Nasal oxygen tube fittings (Figure ④)

The nasal cannula is connected to the nasal oxygen tube connector to deliver a high concentration of oxygen.



DC power in (Figure ⑤)

Connection for external power from the AC power supply or DC power cable.

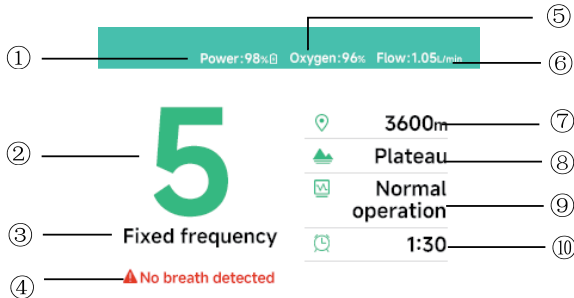


Power supply options

8-core battery and 16-core battery

2.6 Display interface

Portable Oxygen concentrator display contains power status, gear, operating mode, oxygen concentration, flow, altitude and alarm information prompt, ect:



- ①. Power status: display the icon and percentage of remaining power when the battery works alone;
- ②. Gear: display the current working gear;
- ③. Operation mode: fixed frequency or pulse can be selected;
- ④. Alarm information prompt;
- ⑤. Flow: display the current work flow;
- ⑥. Altitude: showing the altitude of the current work;
- ⑦. Oxygen concentration;
- ⑧. Plateau mode: can select whether to enable the plateau mode;
- ⑨. Host running status.
- ⑩. Timing;

3. Operating Instructions

General Instructions

Place the portable oxygen concentrator in a well-ventilated location.

3.1 Place

The intake and exhaust channels must be unblocked. Keep it in place so you can hear the alarm. Always in the vertical position, ensure that the primary filter cotton is installed in place.

⚠ Warning

- Avoid using a portable oxygen concentrator in the presence of contaminants, water mist or smoke. Do not use a portable oxygen concentrator in the presence of easy anesthetics, cleaning agents or other chemical gases.
- When operating the equipment, do not block the intake or exhaust ports. Clogged air circulation or proximity to a heat source can cause internal heat to build up and shutdown or damage the device.
- Portable oxygen concentrators are designed for continuous use. For optimal molecular sieve life, this product should be used frequently.
- Do not operate a portable oxygen concentrator without primary filter cottons. Particulate matter inhaled into the system may damage the equipment.

3.2 Install battery

Insert the portable oxygen concentrator battery into place by sliding battery into place until the latch returns to the upper position and heard "clicking" sound.



⚠ Warning

The battery of the portable oxygen concentrator can be used as a backup power supply in case of planned or accidental loss of AC external power supply. When operating the device from an AC external power source, properly installed portable oxygen concentrator batteries should be retained in the equipment. This program will ensure uninterrupted operation and will run all alarms in the event of an external power outage.

3.3 Connect the power supply

Connect the AC power plug to the power supply, and connect the power output plug to the portable Oxygen concentrator. Screen will be light, at the same time, the machine on one side of the light is lit up.



⚠ Warning

- Ensure that the external power supply is in a well ventilated position and relies on air circulation for heat dissipation. The external power supply may generate heat during operation. Ensure that the external power supply is cooled before use.
- External power supply is not water resistant.
- Do not disassemble the power supply, this may lead to failure and/or safety risk.
- Under certain conditions (see Technical Specifications) the power supply may shutdown. If this occurs, disconnects the power supply for at least 10 second and reconnect.
- When the power supply is disconnected from the AC outlet, also disconnect it from the concentrator to avoid unnecessary battery discharge.

3.4 Connecting the nasal oxygen tube

Connect the nasal cannula tubing to the nozzle Fitting, the oxygen outlet connector is located on the top of the portable Oxygen concentrator. It is recommended to use a nasal oxygen tube with a length of 2-3 meters to ensure correct respiratory detection and oxygen delivery. When using specific nasal oxygen tubes, additional calibration may be required to ensure appropriate oxygen delivery.



⚠ Warning

- To ensure oxygen flow, ensure that the nasal cannula is properly connected to the nozzle fitting and that the tubing is not kinked or pinched in any way.
- Replace the nasal cannula timely. Check with your equipment provider or physician to determine how often the nasal cannula should be replaced.

3.5 Starting the device

1) Press the on/off key for 3 seconds to start the oxygen concentrator. There is a sound prompt at startup, and after the startup screen is displayed, the display screen switches to the main interface.

2) After starting up, enter the main interface, and the display screen displays the gear, battery power, working status, etc. After a short startup procedure, there will be a warm-up time. During this period the oxygen concentration is rising but may not reach to specification. Additional warm up time may be needed if the device use in extremely cold temperature. If no breath is detected, 5 seconds will automatically enter the fixed frequency 20 times/minute operation.

3.6Function setting

1)Press the "+/-" key on the main interface to adjust 1-5 gears.

After the oxygen concentrator is turned on, it starts to work from the gear of the last shutdown by default. Press the "+/-" key to adjust the gear.

2)Setting

Press the "☰" key to enter the pulse sensitivity setting interface, press the "+/-" key to adjust the sensitivity, you can adjust 1-10 gears; Press the "☰" key to enter the screen brightness adjustment option, press the "+/-" key to adjust the brightness, you can adjust 1-5 gears, as shown in Figure 4-1.Normal operation for 2 minutes without key operation brightness into the screen-off mode.

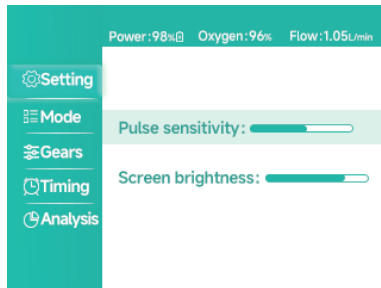


Figure 4-1

3)Mode Setting

Then press the "☰" key to enter the operation mode interface, press "+/-" to select fixed frequency or pulse. In the fixed frequency mode, the equipment starts oxygen at 20 times / minute; then press the "☰" key to enter the plateau mode and press "+/-" key to adjust the switch of the plateau mode, as shown in Figure 4-2.

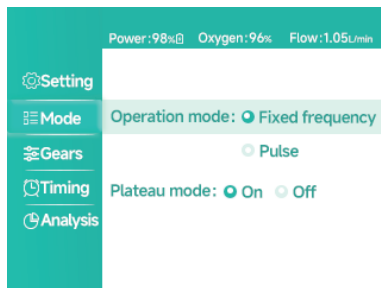


Figure 4-2

4) Gear Setting

Then press the "⋮" key to enter the gear interface, press the "+/-" key to select 1-5 gears, and display the oxygen concentration of the current gear, as shown in Figure 4-3.

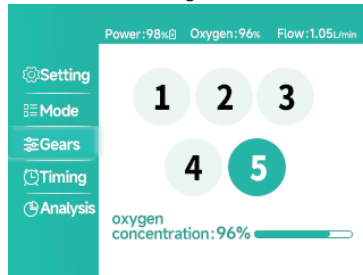


Figure 4-3

5) Timing Setting

Press the "⋮" key to enter the timing screen, and press the "+/-" key to adjust the hours, minutes, and timing switch. After the timing is successfully set, the oxygen concentrator automatically shuts down when the time is up, as shown in Figure 4-4.

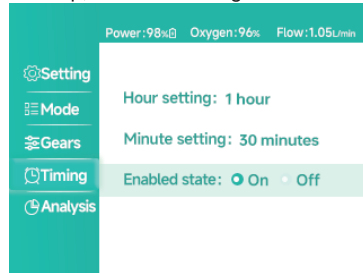


Figure 4-4

6) Analysis

Press the "⋮" key to enter the analysis screen, as shown in Figure 4-5. Then press the "⋮" key to set the cycle.

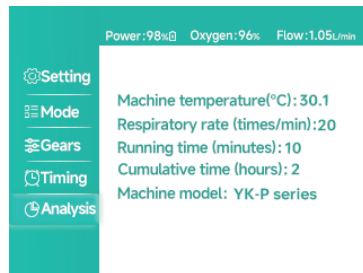


Figure 4-5

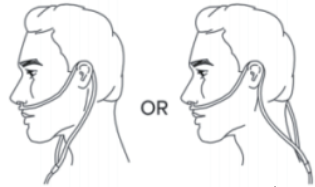
3.7 Wear nasal oxygen tube

Put the nasal cannula on your face and breath through your nose.

Oxygen concentrator will intelligent sense the onset of inhalation and deliver a burst of oxygen at a precise time when you inhale. Oxygen concentrator will sense each breath and continue to deliver oxygen in this manner.

When your breathing rate changes, oxygen concentrator will sense these changes and deliver oxygen only as you need it. At time, if you inhale very quickly between breaths the oxygen concentrator may ignore

one of the breaths, giving the appearance of a missed breath. This may be normal as the oxygen concentrator senses and monitors the changes your breathing pattern. The oxygen concentrator will normally sense the next breath and deliver oxygen accordingly. A green light will flash each time a breath is detected. Ensure the nasal cannula is properly aligned on your face and you are breathing through your nose.



⚠ Warning

- If you begin to feel ill or discomfort while using this device, please stop using immediately.

3.8 Turning off the power supply

To disconnect the power supply, disconnect the input power cord.

4. Power supply overview

The AC power supply of the portable oxygen concentrator is used to power the portable oxygen concentrator from the AC power supply. Portable oxygen concentrator AC power supply is designed for portable oxygen concentrator. AC power supply The precise current and voltage needed to safely power a portable oxygen concentrator and is designed to operate with a specified AC power supply.

The AC power supply will charge battery when used with AC input power. Due to aircraft power limitations, the AC power supply cannot be used to charge the batter when used on an aircraft.

⚠ Warning

- Do not use power supplies or cables other than those specified in this manual. The use of non-specified power supplies or power cable may create a safety hazard and/or impair equipment performance. Do not wrap cords around power supply for storage, do not drive, drag or place objects over cord. Doing so maybe lead to damage cords and a failure to provide power to the concentrator. To avoid danger of choking or strangulation hazard. Keep cords away from children and pets.
- Do not use power supplies/adapters or accessories other than those in this user manual. Use of non-specified accessories may pose a safety hazard and/or impair equipment performance.
- Nasal cannula must be used with the oxygen concentrator to provide oxygen. Nasal cannula up 3 meters long is recommended to ensure proper breath detection and oxygen delivery. We do not specified nasal cannula.

- Nasal oxygen tube replacement.

1.Consider cannula single-use product, we do not recommend to reuse cannula to prevent disease by virus or bacteria contamination. Cannula can purchase from dealer is not response for an adverse reaction due to reuse nasal cannula.

2.Increasing the cannula length maybe reduce the noise during oxygen bolus delivery.

3.When using a cannula 7 meter in length, an increase in flow setting maybe required.

5.Cleaning, care and maintenance

5.1Replace nasal cannula

Your nasal cannula should be replaced on a regular basis. Consult with your device provider and/or cannula manufacturer's instructions for replacement information. A single cannula up to 3 meter in length is recommended to ensure proper breath detection and oxygen delivery.

5.2Cleaning Case

Use a cloth dipped with a mild liquid cleaner and water to clean the case. Do not use alcohol, isopropyl alcohol, vinyl chloride, or petroleum-based cleaners to clean the case. Do not immerse it or its accessories in water or allow water to enter the housing, this may cause shock and/or damage.

5.3Primary filter cotton

The primary filter cotton recommends to clean weekly to ensure the ease of air flow. Remove filters from the front of the device. Clean the filter with a mild liquid detergent and water, rinse in wat and dry before reuse.

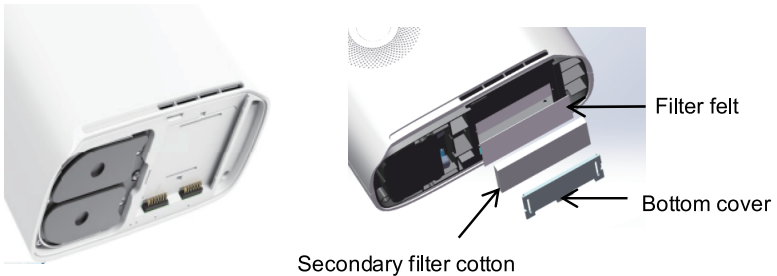
It may be necessary to clean the primary filter cotton more often in dusty environment. Contact your equipment provider or our company to purchase additional primary filter cottons.

5.4Output Filter

The output filter is intended to protect the user inhale small particles in the product gas flow oxygen concentrator includes an output filter. It locates behind the removable cannula nozzle fitting. Concentrator requires that output filter must be replaced between users. The output filter can be replaced by concentrator provider or by user using the output filter replacement tools. The oxygen concentrator must be cleaned and disinfected as per the above instructions for each new user. Users do not need to perform special maintenance on their oxygen concentrator. Your equipment supplier can perform maintenance operations to ensure continued reliable service for your equipment.

5.5Secondary filter cotton

After the battery is removed from the main unit, the secondary filter cotton and filter felt are located in the bottom cover of the main unit, and can be replaced by removing the bottom cover. The secondary filter cotton and filter felt are used to filter smaller particles and remove water. It is recommended to replace it once a month. The replacement method is shown below.



6.Alarm information

Message display &Text	Condition/Action/Explanation
No breath detected alarm	After the oxygen concentrator starts working normally, the breath signal detection should be turned on. If the oxygen concentrator does not detect the breath signal within 60s, the oxygen concentrator accompanied by a double beep(repeated every 20 seconds) and the red alarm light is on and corresponding screen text prompt content.
Low power alarm	The battery has less than 5% remaining. The oxygen concentrator accompanied by a double beep(repeated every 20 seconds) and the red alarm light is on and corresponding screen text prompt content.
Fan error alarm	Undetected fan rotation for 15 seconds triggers this alarm and accompanied by three beeps (repeated every 20 seconds) + a flashing red alarm light. The device shuts down after 10 seconds
Compressor error alarm	Compressor not working triggers this alarm and accompanied by three beeps (repeated every 20 seconds) + a flashing red alarm light. The device shuts down after 10 seconds

7.Quick troubleshooting

When using the portable oxygen concentrator, if you encounter any abnormal phenomena, please seek a solution according to the following form. If the recommended steps do not help, use a spare oxygen concentrator and notify the supplier of the oxygen concentrator for repair. Please do not attempt any other repairs. Any unauthorized repair will result in the loss of your warranty rights.

No.	SYMPTOM	POSSIBLE CAUSE	SOLUTION
1	The machine does not power on when press the on/off button	Battery is discharged or not battery is present	Attach external power supply or exchange battery with fully charged
		AC power supply is not connected properly	Check external power supply connection and verify green light is on
		DC cable is not connected properly	Check DC cable connection at the concentrator and at cigarette lighter or auxiliary DC power source
		Malfunction	Contact your equipment provider
2	No oxygen	Concentrator is not powered on	Press on/off button to power concentrator
		Nasal cannula is not connected properly or is kinked or obstructed	Check nasal cannula and its connection to concentrator nozzle
3	Any about LCD screen display, indicator light and/or alerts	Please refer to chapter 6	Please refer to chapter 6

8.Additional Operating Instructions

Raveling with your Oxygen Concentrator

The oxygen concentrator make travel by boat, car or train more convenient for oxygen user than even before. Now you get the same quality performance and convenience while on the go that you used oxygen concentrator at home. Here are some useful and important instructions for maximizing performance and convenience when using your oxygen concentrator while traveling.

Warning

- Before traveling, you should be preparing AC power supply, extra battery if required.
- Changes in elevation (e.g., from sea level to mountains) may affect the total oxygen supply of a portable prototype.

For use in Automobile/Boat/aircraft (if applicable)

For operation using a DC power source, follow these instructions:

1. Connect DC power output plug to the Oxygen Concentrator.
2. Connect DC power plug (Cigarette lighter adapter) to the power source.
3. The plug should insert into the socket without excessive force and securely remain place.
4. Check the LCD screen to confirm that an external power supply is connected. An icon of a battery with a lightning bolt or an AC power plug will be displayed on the screen, indicating that external power is connected and functioning properly.

Warning

- The tip of the cigarette adapter plug becomes HOT when in use Do not touch the tip immediately after removal from cigarette lighter socket.
- Ensure the automobile power socket is clean of cigarette ash and the adapter plug fits properly, otherwise overheating may occur.
- When powering the oxygen concentrator in automobile ensure the vehicle's engine is running first, before connecting DC cable into cigarette lighter adapter. Operating the device without the engine running may drain the vehicle's battery.
- A change in altitude (for example, from sea level to mountains) may affect total oxygen available to the user.

Traveling by air

- 1.Before you carry oxygen concentrator and plan to use it in aircraft, you should notice airline that you will use concentrator in aircraft. You should contact the assistance desk of airline on which you will be traveling to learn of any paperwork, etc. that might be needed.
- 2.Some airline may equip their aircraft with onboard electrical power. You may have an opportunity to request a seat with a power port which can be used for power oxygen concentrator. However, availability varies by airlines, aircraft and class of service. You should check with your airline or availability and always plan on having sufficient battery power for no less than 150% of the expected duration of the flight.

Before your flight

Here are some points to keep in mind:

1. Ensure your oxygen concentrator is clean, in good condition and free from damage or other signs of excessive wear or abuse.
2. Bring enough charged batteries, no less than 150% of the expected duration of flight, plus a conservative estimate of unanticipated delays.
3. Arrive at airport early. Airport security person may require extra time to inspect your oxygen concentrator.
4. While waiting to board, you can conserve battery power by using the AC power supply to power your oxygen concentrator from an electrical outlet in the airport terminal.

During your flight

1. If using airline power port, remove the battery from the oxygen concentrator. Due to aircraft power limitations, the AC power supply can not be used to charge the battery.
2. Connect the DC power plug for available airline power, check with airline persona to ensure compatibility.
3. During taxi, take off and landing, put your oxygen concentrator under the seat in front of you. oxygen concentrator will fit most airline seats
4. It is not necessary to turn off your oxygen concentrator during taxi, takeoff and landing.

After your flight

Remember to recharge additional batteries before your next flight. Traveling by bus, train or boat, contact your carrier to find out about power port availability.

Battery operating instructions

Ensure that the battery is in place and charged. Disconnect the oxygen concentrator from its power source. While oxygen concentrator is operating on battery power, the battery will discharge. LCD screen will indicate remaining percentage (%) or minutes of use.

When battery is low, do not do of the following:

- Using AC power supply or DC power cable.
- Turn off oxygen concentrator, then replace to the charged battery.
- If the battery is drained, charge the battery or take out from concentrator.

If the oxygen concentrator is powered by the AC power supply or DC power, battery will charge during operation. Leaving oxygen concentrator plugged in past the full charge time will not harm the concentrator or the battery.

Warning

The user is responsible for regularly checking the battery and replacing it as needed. Our company is not responsible for those who choose not to follow the manufacturer's recommendations.

Normal battery charging

To ensure that your battery is properly charged, check that the correct AC power output plug adapter is in use and correctly plugged into the power outlet. Observe the display or indicator light that displays the charging status.

Warning

When starting to charge a fully discharged battery the charging process may start and stop during the first few minutes.

Battery care and maintenance

You need to pay attention to the following items for the lithium-ion battery of your portable Oxygen concentrator to ensure proper performance and long life. Only use the battery of the portable Oxygen concentrator to connect to your portable Oxygen concentrator.

Keep dry

Keep liquids away from battery. If battery becomes wet, discontinue use immediately and dispose of battery properly.

Effect of temperature on battery performance

Under most environmental conditions, a single cell can power a portable oxygen concentrator for up to 3.5 hours (8-cell battery) and 7 hours (16-cell battery). To extend the run-time of your battery, avoid running in temperature less than 5 °C and not high than 35 °C for extended periods of time.

Battery remaining time

The portable Oxygen concentrator continuously displays the remaining battery time. The displayed time is only an estimated value, and the actual remaining time may differ from this value.

Please follow these guidelines to maximize battery performance and life:

1. Store battery in a cool, dry place.
2. If using multiple batteries, make sure that each battery is labeled (1,2,3 or A, B, C, etc.).
3. Take out battery if oxygen concentrator does not use in certain time.
4. Recharge battery do not long than 90 days.

9.Manufacturer's Declaration of the EUT

- 1.The equipment should be installed and used in accordance with the electromagnetic compatibility information in this appendix.
2. You must use the connection cable and switch provided by the company.
3. Warning: The use of other manufacturers' accessories other than the connection cables and switches provided by our company may lead to an increase in emissions or a decrease in immunity.
4. In order to ensure that the portable oxygen concentrator can be used normally and that its emission will not be increased and immunity will not be reduced, please use the connection

Manufacturer's declaration of the eut

cable and related accessories provided by our company.

5. For the use of accessories, transducers or cables other than those specified with the portable oxygen concentrators, it may result in an increase in emission or a decrease in immunity of the equipment or system.
6. The portable oxygen concentrator should not be used with other equipment stacked on top of each other with the same or similar operating frequency. If it must be used on top of each other, it should be observed to verify that it can operate properly in the configuration it is used.
7. The basic performance is that oxygen can be output without unintended changes in operating mode.
8. The portable oxygen concentrators may cause electromagnetic interference to other diagnostic or therapeutic equipment during normal use, please maintain the proper distance from other equipment when using and carefully observe the correctness of the data during the use of their equipment.
9. Portable and mobile RF communication equipment may affect the use of this equipment, it is recommended to keep away from portable and mobile RF communication equipment or keep it in off state when using this equipment normally.
10. Cable information

Cable name	Length (m)
Cable	1.5
Power adapter cable	1.2

Table 1

Guidance and manufacturer's declaration - electromagnetic emissions		
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions GB 4824	Group 1	The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions GB 4824	Class B	The device is suitable for use in all facilities, including domestic and direct connection to the residential public low voltage supply grid for domestic use.
Harmonic emissions GB 17625.1	Class A	
Voltage fluctuations/ flicker emissions GB 17625.2	applicable	

Manufacturer's declaration of the eut

Table 2:

Guidance and manufacturer's declaration - electromagnetic Immunity			
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.			
Immunity Test	IEC 60601 Test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD)GB / T17626.2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst GB/T17626.4	±2 kV for power supply lines	±2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge GB/T17626.5	±1 kV wire to wire ±2 kV wire to ground	±1 kV wire to wire NA	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5%U _T , lasting 0.5 cycles (95% dip on U _T) 40% on U _T . Last 5 cycles (On U _T , 60% drop) 70% on U _T . Last 25 cycle (30% drop on U _T) <5%U _T for 5s (>90% drop on U _T)	<5%U _T , lasting 0.5cycles (95% dip on U _T) 40% on U _T . Last 5 cycles (On U _T , 60% drop) 70% on U _T . Last 25 cycle (30% drop on U _T) <5%U _T for 5s (>90% drop on U _T)	Mains power quality should be that of a typical commercial or hospital environment.
Power frequency (50/60Hz) magnetic field GB/T17626.8	30A/m	30A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE: U_T refers to the AC network voltage before the test voltage is applied.

Table 3:

Guidance and manufacturer's declaration - electromagnetic Immunity			
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.			
Immunity Test	IEC 60601 Test level	Compliance level	Electromagnetic environment - guidance
Conducted RF GB/T17626.2	3 V (effective value) 150 kHz–80 MHz 3V/m 80MHz-2.5GHz		Portable and mobile RF communication equipment should not be used closer to any part of the device than the recommended isolation distance including cables, which should be calculated using the formula corresponding to the transmitter. Recommended isolation distance $d=1.2\sqrt{P}$ $d=1.2\sqrt{P} \text{ 80MHz-800MHz}$ $d=2.3\sqrt{P} \text{ 800MHz-2.5GHz}$ In the formula P - the maximum output rated power of the transmitter provided by the transmitter manufacturer, in watts (W); d - recommended isolation distance, in meters (m). The field strength of a fixed RF transmitter is determined by surveying the electromagnetic field a, and should be lower than the corresponding level in each frequency range b. Interference may occur in the vicinity of equipment marked with the following symbol: 
NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			
a. Field strength from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation.			

Table 4:

Recommended separation distances between portable and mobile RF communications equipment and the Device.			
The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the device as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter / m		
	150 kHz ~ 80 MHz $d = 3.5\sqrt{P}$	80 MHz ~ 800 MHz $d = 1.2\sqrt{P}$	800 MHz ~ 2.7GHz $d = 2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

10.Product technical specifications

Name	Portable Oxygen Concentrator
Dimensions	Host (Include battery): Approx.187 x88 x237mm
Weight	Host (Include 8-Core battery): Approx.2.28 kg (Optional) Host(Include16-Core battery): Approx. 2.68 kg
Battery Duration	8-Core battery: up to 3.5 hours (Optional) 16-Core battery: up to 7 hours
Battery Charging time	8-Core battery : Approx.2.5 hours (optional) 16-Core battery : Approx. 5 hours
Warm up time	Oxygen reach to 90% in 5 minutes
Sound Level dB(A)	≤60 dB(A)
Oxygen Purity	Oxygen concentration 90%-96%(V/V)
Max Limited Pressure	0.15MPa±25%
Flow Setting	1-5 Setting
Flow Rate(ML/min)	Setting1-200mL/min, Setting2-400mL/min Setting3-600mL/min, Setting4-800mL/min Setting5-1000mL/min,
AC Power supply	AC 110-240V 50/60Hz
Internal Power(battery)	DC12-14.4V
Transport/ Storage Temperature	a) Environment temperature: -25°C-55°C b) Relative Humidity: 0~90%; c) Barometric pressure: 86~106kPa;
Operating environment	a) Environment temperature: 5°C~ 40°C; b) Relative Humidity: ≤80%; c) Barometric pressure: 86~106kPa;
Warranty Period	Host: 1 year Battery: 1 year

11.After-sales service

1. One year free warranty period will be provided after sales.
2. Our company cannot provide the free warranty service due to the malfunction caused by personal reason, details as follow:
 - 1) The malfunction caused by disassemble and modify the product.
 - 2) The product inner malfunction caused by dropping while picking up or operating.
 - 3) The malfunction caused by improper used or lack of reasonable cared.
 - 4) The malfunction caused by operating not following the operator's manual .
 - 5) The malfunction caused by natural disasters, Such as flooding , fire.
 - 6) The malfunction caused by improper repaired by repaired shop which isn't our authorized.
3. Please show your valid warranty card and shopping vouchers when you need free service.
4. Please bring the product to repaired shop which is our authorized when you need free repaired.
5. When performing warranty service, if needed, you can provide information on product components to circuit diagrams and repairable identified by our qualified technical personnel.
6. We will collect reasonable charge when we repair some malfunctions which out warranty service.

Components

NO.	Components	Quantity
1	Host machine	1 set
2	Power adapter (including power cord)	1 pc
3	User manual	1 pc
4	Storage bag	1 pc
5	Car special power cord (Optional)	1 pc
6	Primary filter cotton	2 pcs
7	Secondary filter cotton	1pc
8	Filter felt	1pc

