

# Portable Oxygen Concentrator

## User Manual



Please read the instruction carefully before use the machine.

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# 1. Introduction

Welcome to choose Olive portable oxygen concentrator! Olive oxygen concentrator adopts AC 100V– 240V power supply, uses air as raw material and high-quality molecular sieve as adsorbent and adopts the principle pressure swing adsorption (PSA) to directly separate oxygen from nitrogen normal temperature, oxygen of high purity is thereby produced.

In order to ensure the safety and effectiveness of oxygen concentrator, please read this manual carefully before using the machine, so as to have a comprehensive understanding and knowledge of the product performance as well as correct operation and maintenance methods. Please strictly observe relevant safety precautions during installation, use and maintenance.

## 2. Specification

Specification	
Product model	OLV- POC5
Charging voltage	AC100-240V 50/60Hz DC19-21V
Power	130W
Oxygen purity	90%- 96%(1st-6th gear)
Flow rate	1-6 gears
Product dimensions	19.9 × 18.3 × 8.6 cm(7.83 × 7.20 × 3.39in)
Net weight	1.98kgs( 4.37 lbs) with battery
Battery operation time	1.3-4H ± 15%
Battery charging time	Within 2.5 hours
Operation sound	≤60dB(A)

Operating environment requirements	
Items	Parameters
Work temperature	5℃ - 40℃
Environment humidity	≤70%
Altitude	0- 4000M(0- 13123ft)

Requirements for transportation/storage environments	
Items	Parameters
Ambient temperature	5℃ - 40℃
Ambient humidity	≤70%

### 3. Illustrations

This product contains the following components:

- A. Type-C power cord (Fig.1)
- B. Nasal Cannula (Fig.2)
- C. Bag (Fig.3)
- D. Secondary filter (Fig.4)
- E. DC power adaptor(Optional) (Fig 5)



(Figure 1)



(Figure 2)



(Figure 3)



(Figure 4)



(Figure 5)

### Illustration for the host machine

- |                                                   |                                                                                   |
|---------------------------------------------------|-----------------------------------------------------------------------------------|
| 1. Built-in large screen                          | 6. Type-C charging port                                                           |
| 2. Flow regulating button                         | 7. Lithium battery                                                                |
| 3. Power button                                   | 8. Air outlet(Opposite side)                                                      |
| 4. Oxygen outlet<br>(nasal oxygen tube interface) | 9. Secondary filter<br>(At the bottom of machine after<br>the battery is removed) |
| 5.Left and right first filter                     |                                                                                   |

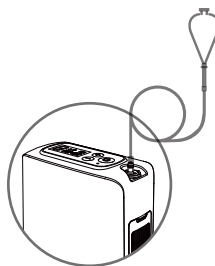


(Figure 6)

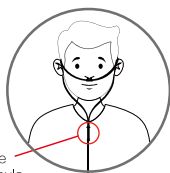
## 4. Operation Steps



- ① Long press the switch button for 2 seconds to turn on the oxygen concentrator



- ② Connect the oxygen connection tube (the nasal cannula) to the oxygen outlet



Tighten the nasal cannula

- ③ Put the nasal cannula on your face correctly and adjust it to the proper and comfortable position



- ④ Press the **+** **-** button to adjust the oxygen concentrator gear



- ⑤ Press the power button for 2 seconds to turn off the oxygen concentrator (after the power is turned off, the machine fan will continue to run for about 30 seconds, and then stop working)

### Note

1. Make sure that the left and filters are not covered and maintain normal air circulation;
2. When the igniter of the vehicle is turned OFF, please disconnect the power line of the oxygen concentrator, otherwise, it may consume the battery power of the vehicle.
3. Please use the machine under the specified conditions.



## Introduction to Oxygen Output Mode

This product uses 6-gear induction pulse mode to output oxygen. In the inductive pulse mode, the sensitive probe inside the machine will detect your breathing and deliver oxygen according to your breathing rate. It can monitor your breathing rate, supply oxygen when you breathe in air and stop when you breathe out air. This technique can help you provide proper amounts of oxygen in all phases of your daily activities and even during your rest.

Gear	1	2	3	4	5	6
Oxygen concentration	$\geq 90\%$	$\geq 90\%$	$\geq 90\%$	$\geq 90\%$	$\geq 90\%$	$\geq 90\%$
Oxygen output amount per time(ml)	14.0	27.0	40.0	54.0	67.0	80.0
Total flow (ml/min)	$200 \pm 10\%$	$400 \pm 10\%$	$600 \pm 10\%$	$800 \pm 10\%$	$1000 \pm 10\%$	$1200 \pm 10\%$

## 5. Troubleshooting

### 1. Machine is not working:

(1) Check it to see if the battery has run out.

### 2. No reaction in charge/discharge:

(1) Check whether the Type-C/USB socket is inserted in place;

(2) Check the connection of the adapter;

(3) Check whether Type-C/USB cable has been damaged.

### 3. Abnormal sound:

(1) Check whether the machine keeps the horizontal line when it works.

(2) Check whether the air inlet is blocked or whether the filters are missing. Refer to Figure 6⑤ and Figure 6⑨

#### 4. Find and fix faults:

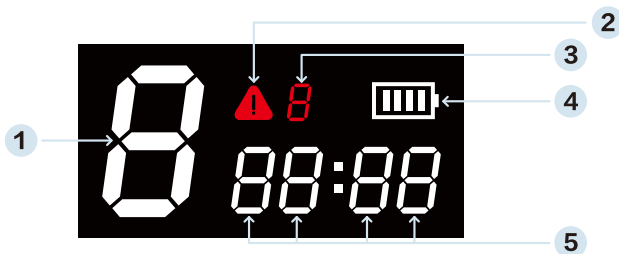
The following table shows the faults detected and how to repair them. It will help you analyze and repair oxygen concentrator faults correctly. If the recommended steps can not help you, please switch to your alternate oxygen system and notify the oxygen concentrator supplier. Do not make other attempts for repairs.

#### Warning

Do not attempt to open the machine or remove internal components. In order to avoid electric shock, please do not open the machine shell. If you must dismantle the machine for inspection, the shell can only be opened by an authorized technician.

#### 5. Display screen:

- |                                       |                   |
|---------------------------------------|-------------------|
| 1 Digital display of gears (1–6)      | 2 Alarm lamp      |
| 3 Alarm digital display (1–8)         | 4 Battery display |
| 5 Running time display (hour: minute) |                   |



#### 6. Alarm display:

The oxygen concentrator is equipped with fault display function, which is shown in Figure 2 and figure 3 above. The alarm includes:

- (1) When the temperature is too high, the alarm indicator light will be on and the alarm number will be displayed as 1;
- (2) When the fan stops, an alarm will be given and the alarm indicator light will be on, The alarm number will be displayed as 2;
- (3) When the compressor stops, an alarm will be given; the alarm indicator light will be on. The alarm number will be displayed as 3

(4) When the oxygen concentration is lower than 80%, the alarm indicator light will be on. The alarm number will be displayed as 4;

(5) When the gas tank pressure is too low, an alarm will be given; the alarm indicator light will be on. The alarm number will be displayed as 5;

(6) When battery has low power, the alarm indicator light will be on. The alarm number will be displayed as 6.

(7) If there is no breathing 15s, an alarm will be given; the alarm indicator light will be on. The alarm number will be displayed as 7;

(8) When the oxygen concentration does not reach 90% within 2 minutes, an alarm will be given; the alarm indicator light will be on. The alarm number will be displayed as 8;

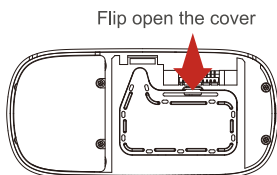
If you encounter any of the above situations, please shut down the host and contact your equipment supplier.

## 6. Maintenance

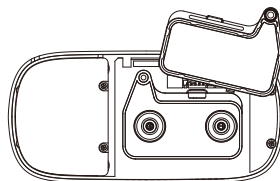
### 6.1 Change the first class filters & secondary filter

Disconnect all external power of the oxygen concentrator, take out the battery as well as the secondary filter; change a new secondary filter, and then insert the battery.

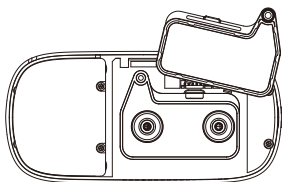
Suggestion: The secondary filter is suggested to replace about every 3000 hours according to the following steps shown in the figure:



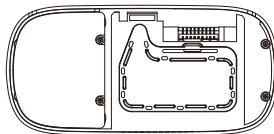
① Remove the battery and open the intake filter component



② Remove the intake filter component



③ Install a new filter



④ Insert the battery

The first filters are suggested to clean once a week:

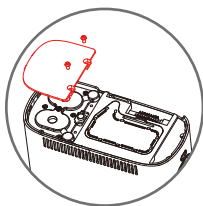
Press it down to take out the filter



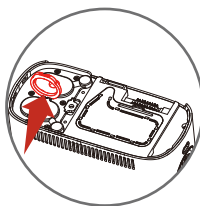
① Clean the filter once a week, put it back after drying.

## 6.2 Replacement of molecular sieve cylinder

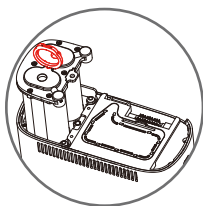
The molecular sieve cylinder shall be replaced according to the following figure:



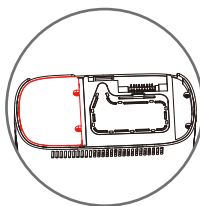
① Open the cover plate of the molecular sieve unit and unscrew the screws



② Screw in the pull ring and pull the molecular sieve unit upwards



③ Replace the molecular sieve unit by a new one



④ Screw the cover and reinstall the battery

## 6.3 External cleaning of the machine

Do not pour the liquid directly on the machine. Chemical cleaners used on the plastic housing of the machine may damage its plastic shell.

These cleaners include but are not limited to the alcohol and alcohol products, the highly chlorinated solutions (chloroethane) and the oil products (Clorox Pine-Sol, Lestoil). You can only clean the shell, control

panel and power cord with a damp cotton cloth or a sponge dipped in a neutral house-hold cleaning solution and then wipe dry the clean area. Please keep away the machine from the liquid. Take special care to ensure that the air intake and oxygen outlet are free of dust, water, or other particulate matters.

#### **6.4 For oxygen concentrator equipped with battery**

Store the battery in a dry and cool location to ensure service life of the battery. Exposing the battery to high temperature/full charge/full discharge for a long period of time will reduce its service life. If the battery is not used frequently, it should be charged to 50% of the battery every other month to save the battery.

## **7. Warranty**

The service life of this product is 5 years. The warranty period is one year from the sales date of this product. (consumables are not included in the warranty scope). If the product can not work normally during the warranty period (except for improper operations by users), we will repair or replace the parts for users.

★ Consumables include oxygen cannula, first class filters and secondary filter.

## 8. Precautions and Safety Instructions

### Note

1. Please replace the oxygen fittings regularly and keep them clean. The oxygen tube should not be bent and blocked and should not be sucked when there is water.
2. The oxygen concentrator should be used and not stored in damp and dusty environments.
3. **Children under 5 years of age should seek medical advice before they use the oxygen concentrator.**
4. Before using the machine, please check whether the machine label and the corresponding power supply specification requirements are consistent.
5. In case of hypoxia or discomfort during the use of the equipment, please seek medical advice immediately.
6. If you need to carry it on the plane, please separate the battery from the host for security inspection.

### Warning

1. Keep the equipment and its accessories away from heating surfaces.
2. **Oxygen is a combustion-supporting gas. There shall be no open fire near the oxygen concentrator. Smoking is not allowed near the oxygen concentrator.**
3. The battery contains corrosive chemicals, which are flammable. Do not expose the battery to heat sources such as open flame or spark. Do not transport the battery with flammable, explosive or combustible materials. Do not place tools and other metal objects near the positive and negative ends of the battery because it may cause short circuit and electric shock.

### Prohibition

1. Do not block the first filters to prevent equipment damage.
2. Do not disassemble the machine without permission. Do not disassemble the battery without permission. There are no maintainable parts inside the battery.
3. Children are not allowed to operate the machine alone. Please keep the machine and its battery out of reach of infants to avoid damage, electrocution and other accidents.
4. Do not use unofficial equipment to charge this product. Please only use the original adapter to charge it. Our company does not assume any responsibility and compensation in case of accident.
5. Please do not operate the machine under any abnormal circumstances including but not limited to the following cases:

- Damage from impact or fall;
- Soaked in liquid;
- Damaged plug or power cord;
- Fan does not work and the machine is overheating;
- Machine alarm;
- Abnormal sound



## Warranty Card

**Product name** \_\_\_\_\_ **Product model** \_\_\_\_\_

**Product number** \_\_\_\_\_ **Date of production** \_\_\_\_\_

Name of the customer \_\_\_\_\_ Contact number \_\_\_\_\_

Customer address \_\_\_\_\_

① Warranty contents: \_\_\_\_\_ After-sales service: \_\_\_\_\_

Customer signature: \_\_\_\_\_ ☐ satisfied ☐ dissatisfied

② Warranty contents: \_\_\_\_\_ After-sales service: \_\_\_\_\_

Customer signature: \_\_\_\_\_ ☐ satisfied ☐ dissatisfied

③ Warranty contents: \_\_\_\_\_ After-sales service: \_\_\_\_\_

Customer signature: \_\_\_\_\_ ☐ satisfied ☐ dissatisfied

④ Warranty contents: \_\_\_\_\_ After-sales service: \_\_\_\_\_

Customer signature: \_\_\_\_\_ ☐ satisfied ☐ dissatisfied

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