

Household Oxygen  
Concentrator

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# Safety Introduction

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## Special Notes:

To prevent power failure or possible failure of oxygenator, the user in urgent need of oxygen must be equipped with other backup oxygen supply devices (such as oxygen cylinder, oxygen bag, etc.)! The device is suitable for oxygen supplementation and is not considered for life support or continuation!

## I. Per-installation

- ▶ It is inhibited to lie upside down the oxygenator!
- ▶ If the supply voltage used is unstable and exceeds the range of  $220\text{ V} \pm 22\text{ V}$ , please add a voltage regulator before use!
- ▶ Please select a safe and qualified socket and wiring board with safety electrician certification!
- ▶ on-specialized personnel do not open the chassis!

## II. Placing area

- ▶ Oxygenators should be kept away from flammable and explosive situations.
- ▶ The oxygenator shall be placed in the indoor ventilated place, avoid direct sunlight, and be more than 10 cm away from walls, furniture and other analogues around it.
- ▶ The oxygenator shall not be placed in the following environment: places near heat source and light and dark ignition source, wet, unshielded, with smoke and pollution, at or below the temperature.
- ▶ No foreign matter and water and oil containers allowed to be placed on the top of oxygenator.
- ▶ Do not place any debris at the bottom of the oxygenator to prevent shutdown or oxygen concentration decrease due to temperature caused by blockage of inlet and exhaust ports.

# Safety Introduction

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## III. In use

Oxygen is a combustion-supporting gas. Do not smoke and keep away from light and dark sources when using it, so as to avoid fire hazard.

- ▶ Do not use oil or grease in any part of the oxygenerator, so as to avoid contaminating oxygen and causing fire.
- ▶ Do not place the oxygenerator or place it in a place where it is easy to drip water or other liquid.

## I. Overview

Function of oxygen

Oxygen inhalation can improve the body's support status and achieve the purpose of oxygen health care. It is applicable to middle-aged and elderly people, poor physical fitness, pregnant women, college entrance examination students and other people with different degrees of physiological hypoxia, but also after heavy physical or mental exertion to eliminate fatigue and restore physical function.

## II. Scope of application

► Provide oxygen for families and individuals, health care and cosmetic care.

## III. Structural features

► PFully plastic enclosure, safe and reliable.

► Remote control function: the machine can be operated remotely and is easy to use.

► Accumulated time function: display the total working time through the display screen.

► It has the function of timing shutdown, which is easy to use.

► It has the function of releasing negative oxygen ions: improve alveolar ventilation function and enhance oxygen absorption rate.

► The compressor is equipped with a thermal protector to better ensure the safety of the compressor and the whole machine.

## IV. Principles of oxygen production

Taking 220V power supply as power source and air as raw material with high quality molecular sieve adopted, this machine draws high purity oxygen by pressure swing adsorption separation method (PSA method) at room temperature.

## V. Main technical indicators

1. Power supply: AC220V  $\pm$  22V, 50Hz  $\pm$  1Hz
2. Input power: 1L/150VA    2L/250VA
3. Oxygen concentration: 30% -90%
4. Oxygen flow: 1-7 L/min
5. Noise of overall unit:  $\leq$  50dB (A)
6. Net weight: 6 kg
7. Overall dimension: 39.0  $\times$  29.5  $\times$  25.0 (cm)
8. Security system:
  - ▶ Current overload or loose connection, shutdown;
  - ▶ Compressor is hot and shut down.
9. Electrical classification: Class II
10. Working mode: continuous operation
11. Normal operating environment:

# Product Feature

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- ▶ Ambient temperature range: 5°C -40°C;
- ▶ Ambient temperature range: 5°C -40°C;
- ▶ Atmospheric pressure range: 860 hPa-1060 hPa;

**Note: When the storage temperature is lower than 5°C, the equipment shall be placed at normal operating temperature for more than four hours before use.**

12.Storage and transportation environment:

- ▶ Ambient temperature range: -20°C ~ + 60°C;
- ▶ Relative humidity range: 15% -93%, without condensation;
- ▶ Atmospheric pressure range: 700 h-Pa 1060 hPa

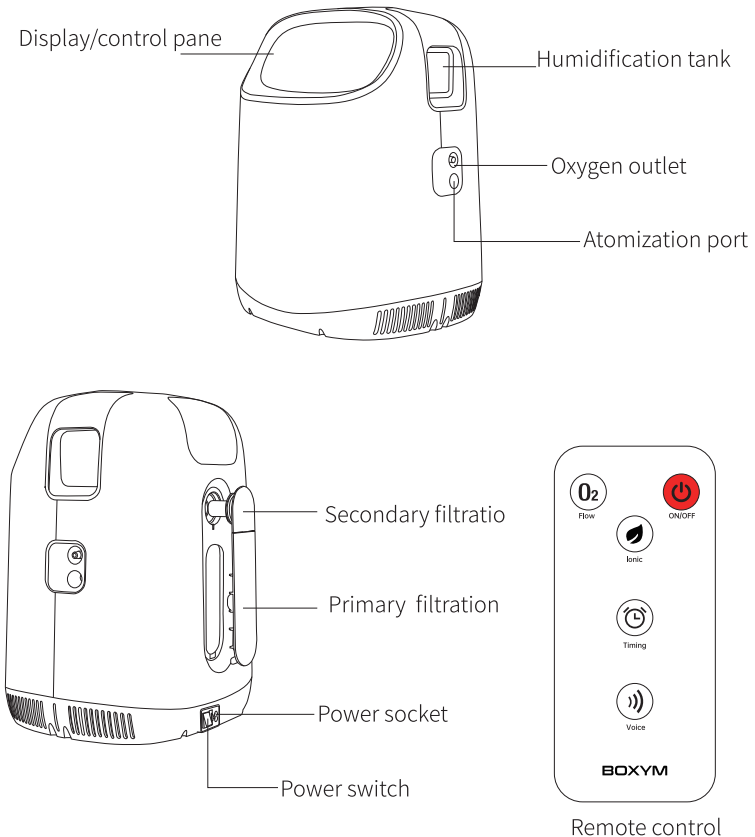
**Note: When the storage temperature is lower than 5°C, the equipment shall be placed at normal operating temperature for more than four hours before use.**

# Installation and Use

## I. Unpacking inspection

Before installing and operating the product, the user shall first inspect whether the appearance of the product is good, and whether the variety and quantity of accessories are consistent with the packing list after the instruction manual. In case of any defect, please contact the supplier or manufacturer in time.

## II. Appearance diagram and function introduction





# Installation and Use

## III. Preparation

Gently pull out the protective cap of the humidifier cup, the humidifier tank, and unscrew the cap of the humidifier cup at the top in the direction shown in the figure, and add cold purified water (or distilled water) not to exceed the maximum water line. (Figure 6)

**Note: The water tank can produce oxygen normally without adding water.**

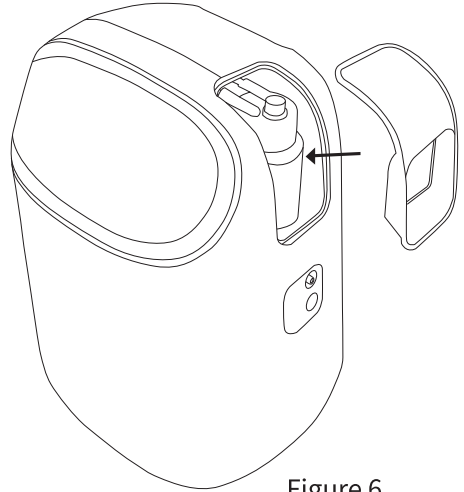


Figure 6

- ▶ Tighten the lid of the humidification cup onto the humidification water tank, which is loaded back into the machine.
- ▶ Power on: connect one end of the power cord to the power socket of the oxygenator, and connect the other end of the plug to the socket with power output.
- ▶ Press the power switch to "I", press the "ON/OFF" key on the control panel, the display screen shows the oxygen flow rate, oxygen concentration, timing and accumulated time, and the oxygenator enters normal operating state.

When the oxygenator works, it emits a "wheezing" sound every few seconds, which is a normal ventilation sound.

# Installation and Use

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## IV. Oxygen inhalation operation

- ▶ Press the "ON/OFF" key on the control panel, click the "Flow" key, adjust to the required flow, and display the oxygen concentration corresponding to the flow on the display screen. At the same time, bubbles shall pop out from the water tank. The oxygen outlet of the humidification water tank shall have oxygen output.
- ▶ Connect well one end of the oxygen inhalation tube to the oxygen outlet of the humidification water tank, the other end (oxygen inhalation head or nasal suction head end) and the user, so that the oxygen inhalation can be started.

## V. Atomization operation

- ▶ Take out the atomization kit, add an appropriate amount of liquid medicine into the atomization cup (please follow the doctor's advice), and the maximum scale line of the atomization cup shall not be exceeded.
- ▶ Before startup, unscrew the atomization plug at the atomization port of the host counterclockwise, and connect both ends of the catheter to the atomization cup and the atomization port of the host, respectively.
- ▶ Switch on the power switch of the generator, click the "ON/OFF" key on the control panel to start the atomization treatment. (Please follow the doctor's advice for atomization time)
- ▶ After the end of atomization, remove the atomization tube and tighten the atomization plug.

## VI. Self-setting time

This machine has timing function. If required by the user, the timing key on the control panel can be pressed to set itself within 30 min-04 h 00 min.

- ▶ At the beginning of startup, the display screen shows "timing - h - min", indicating that the timing shutdown function is not set, and it is in continuous operation state, until it is shut down by pressing the switch.
- ▶ When the "timing" key is pressed each time, the display number is added for 30 minutes, indicating that the running time is increased by 30 minutes.
- ▶ When it is pressed and held for not more than 1.5 seconds, the display number will be continuously increased until it is released.
- ▶ After reaching the set time, the oxygenerator will be automatically closed. At this time, the display screen displays "timing 00:00". Press the timing key to reset the start-up time.

## VII. Negative ion operation

- ▶ Press the "Ionic" key on the control panel to turn negative ions on and off.

## VIII. Shutdown

- ▶ If oxygen needs to be temporarily stopped during use, press the "ON/OFF" key on the control panel to stop and start oxygen inhalation.

# Installation and Use











After the use, first unplug the oxygen inhalation tube or connecting tube from the oxygen outlet, turn off the power switch, unplug the power plug, and cut off the mains supply.

## IX. Remote control operation

►The machine can be operated remotely through the remote control, and its key function is similar to that of the oxygenerator control panel.

**Note:** When operating the remote control, it shall be in front of the remote receiving window.

## X. Symbols related to safety requirements in this machine and their meanings

Symbols	Meaning	Symbols	Meaning
	Alternating current		Attention! Refer to accompanying documents
	Class II		Disconnection (mains)
	On (mains)		Rain-fearing
	Up		Temperature limit
	Fragile		No smoking

**Warning:** Disconnect the power supply before servicing the oxygenerator. To avoid electrical shock, do not disassemble the enclosure.

## Clean 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.

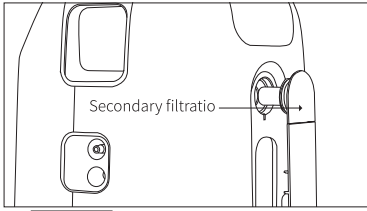
## Clean or replace filter felt

After a total of 300 hours of operation, the machine will prompt maintenance. At this time, 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 prolong the life of the oxygenerator. Please clean and replace in time.

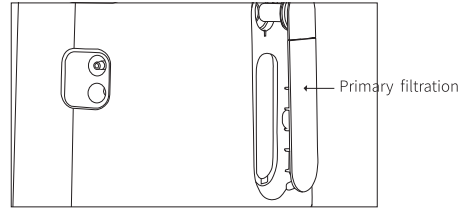
**Warning:** Do not operate the oxygenerator when the filter element is not installed or wet, causing permanent damage to the machine.

►Disassembly: The filter cartridge is located at the rear side of the machine and can be directly removed by pulling it out from the bottom of the filter. Filter cartridges should have actual cleaning times determined based on actual usage time and environmental impact.

# Maintenance and Repair



(Fig.11)



(Fig.12)

If the filter cartridge is black, it should be washed or replaced immediately regardless of the duration of use.

►Cleaning: firstly use light cleaner for cleaning, and then use clean water for rinsing; It is necessary to wait for drying through and then install it on machine.

### III. Cleaning the humidification water tank

►The water in the water tank should be changed daily.

► The humidification water tank shall be cleaned once a week, and repeatedly flushed with clean water, so as to ensure oxygen hygiene.

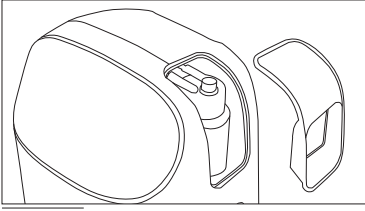
When cleaning the humidification water tank, care should be taken to clean the fitted lid of the humidification cup.

Note: If the water tank is not cleaned for a long time or the water is not changed for a long time, resulting in scale or odor, it can be soaked in white vinegar for more than half an hour, shaken vigorously to clean and then washed with clean water.

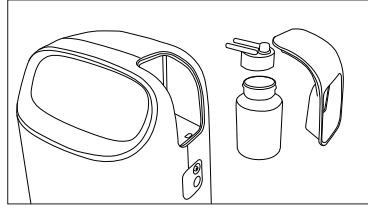
# Maintenance and Repair

## ►Removing the humidification water tank

- (1) Pull out the humidification water tank along the direction shown in the figure (Fig. 13),
- (2) Remove the cap of the humidification cup (Fig. 14).



(Fig. 13)



(Fig. 14)

## IV. Clean the nasal itching tube

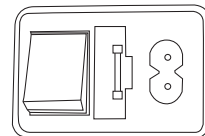
(It should generally be washed every three days. The nasal tip on the oxygen inhalation tube should be cleaned after each use. It can be soaked in white vinegar for about 5 minutes and then washed with water, or wiped with medical alcohol. It is recommended that the oxygen inhalation tube be replaced every 2 months.

(Note: The oxygen inhalation tube should be kept dry.)

## V. Replacement of fuse tube

First cut off the power supply, the fuse holder is located at the bottom of the machine, and the fuse holder cover is lifted with a screwdriver, It can be removed and replaced. ( Figure 15)

(Note: The model of fuse wire is  
T10AL250V,  $\Phi 5 * 20$ )



# Maintenance and Repair

## VI. Common faults and troubleshooting guidelines

Faults	Possible Cause	Exclusion Method
Oxygenator presents power supply, but the machine is not working, and the display screen is not displayed	1. Fused mains fuse	1. Replace the fuse tube
	2. Insufficient power at the power outlet	2 Extension line inhibited, the source will exit or circuit
	3. If the oxygenator is still not working, contact the equipment supplier or manufacturer	
Oxygenator is working, while there is little or no air out at oxygen delivery port	1. Oxygen delivery line kinked or blocked	1. Straighten out the tubing
	2. Uncapped or missed humidification cup	2. Recap
	3. Obstruction of the humidification water tank	3. Clean the humidification water tank
	4. Filter cartridge dirty	4. Clean or replace the filter cartridge
	5. Contact the device supplier or manufacturer if persistent	
Power supply, but machine is not working and display screen is displayed"	1. Compressor overheating protection, shutdown	1. Shutdown, wait for the whole machine to cool before starting up
	2. Stop using the machine and immediately contact the equipment supplier or manufacturer if this continues	

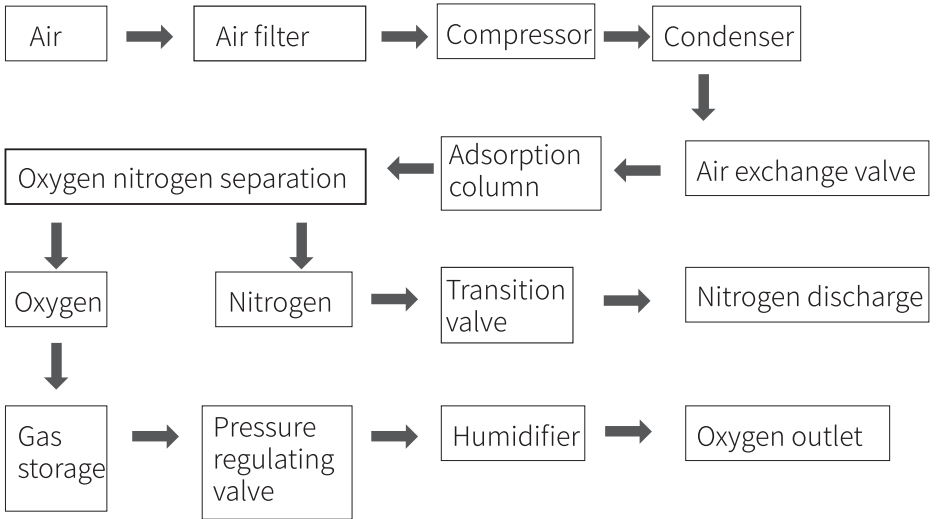
**Note: Contact the supplier or manufacturer if an oxygenator failure cannot be eliminated.**



# Additional Precautions

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## I. Schematic diagram of gas circuit work



## II. Electromagnetic environment guidance

To avoid the interference of this machine by strong electromagnetic environment or other electrical products, please keep this machine at least 30 cm away from other household appliances in use.

**III. Non-professionals shall not disassemble the oxygenator box. Professional maintenance personnel shall contact the manufacturer or after-sales service point if they need the schematic diagram of the product.**

# Additional Precautions

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## IV. After-sales Service

► The company shall be responsible for the guarantee of return, replacement and repair if the product has quality problems without human factors within one week from the date of sale; under the normal use and storage conditions, the company will give free maintenance if the product has quality problems within one year from the date of appearance (the warranty period of compressor is three years);

If the product has quality problem one year after delivery, the user may go to the after-sales service department, office or distributor of the company according to the invoice and warranty card, and the company will provide components, maintenance and reasonable charge. If the user fails to provide invoice, the warranty period shall be extended by one month based on the serial number or ex-factory date of the company.

► The following circumstances do not belong to the scope of warranty:

- ① Vulnerable and consumable products: atomization accessories, oxygen preparation accessories, fuse tube, filter felt and humidification water tank;
- ② The user causes that water, drug and other liquids enter the machine and fail to work normally;
- ③ Water inlet or rain of the whole machine;
- ④ The fault caused by unauthorized disassembly, repair and renovation of this product;

# Additional Precautions

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- ⑤ The fault caused by accidental drop in the process of use and transportation;
- ⑥ The fault caused by failure to operate according to the correct method specified in the instructions for use;
- ⑦ Damage caused by unforeseen natural disasters (such as fire, earthquake and flood).

## V. Packing list

1.Oxygenerator	1 set	
2.User manual	1 copy	
3.Nasal oxygen cannula	1 set	
4.Atomization accessories	1 set	
5.Filter cartridge	1 set	
6.Fuse tubes (T10AL250V, 5 × 20)		1 pieces
7.Power cord	1piece	
8.Remote control	1piece	
9.Oxygen mask	1piece	
10.Primary filter cotton	1piece	

## VI. Disposal of wastes and residues

The disposal of wastes and residue shall comply with the relevant national laws and regulations.

This product reserves the right to make changes in technology and appearance without notice. Excuse me!

# After-sales Service

## Certificate of Compliance Domestic oxygenerator

Product model:

Manufacturing/inspection date:

Inspector:

Test conclusion:

Manufacturer name: Shenzhen Boxym Technology Co.,Ltd

Manufacturer address: 4th Floor, Building 7 ,No.90 Dayang Road, Fuhai Street,  
Bao'an District, Shenzhen

## Product Warranty Card

Dear users:

Hello! Thank you for purchasing our products. In order to better serve you, please read this manual carefully, fill in and properly keep this warranty card.

Username		Contact person	
Purchase date		Contact number	
Product name		Product model	
User address			
Order No.			
Service records	Date	Failure reason and treatment	