Table of Contents

1.Product Overview

Welcome to choose the medical oxygen concentrator series products manufactured by our company!

Our series medical oxygen generator adopts 220V AC power supply, uses air as raw material and high-quality molecular sieve as adsorbent, and adopts the principle of pressure swing adsorption (PSA) to directly separate oxygen from nitrogen at normal temperature, oxygen of high purity is thereby produced.

In order to ensure the safety and effectiveness of medical oxygen generator, 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.

1.1 Functions of oxygen

By supplying oxygen to patients, the machine can help the treatment of cardiovascular and cerebrovascular diseases, respiratory diseases, chronic obstructive pneumonia etc. and the rehabilitation of anoxic patients.

Oxygen absorption can improve physical oxygen supply condition and achieve the purpose of oxygenating care. It is suitable for the middle-aged and elderly, people with poor physical fitness, pregnant women, students and other people who suffer different degrees of physiological hypoxia. It can also eliminate fatigue and restore somatic function after heavy physical or mental exertion.

1.2 Scope of application

It is applicable for oxygen generation in medical institutions and family etc. for the use of anoxic patients.

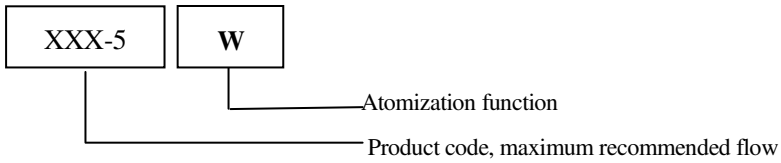
1.3 Product features

1) Plastic casing, novel design, simple operation, stable operation, easy maintenance.

2) Generate oxygen adopting physical methods, with air as raw material, without the use of additives, only needing power supply, with low cost.

3) Adopt pressure swing adsorption (PSA) technology of efficient molecular sieve, with simple process flow and low energy consumption.

1.4 Specification & model



2. Safety Overview

2.1 Safety precautions

Safety Precautions

Warning

1. This product can not be used for life support or life sustaining. Patients who can not express discomfort or can not hear or see alarm signals require additional care.

2. Oxygen therapy may be harmful under certain conditions. Patients shall correctly control oxygen flow and oxygen absorption time under the guidance of physician.

3. Excessive use of high-purity oxygen has toxic and side effect on human body.

4. People suffering severe carbon monoxide poisoning shall not use this product.

5. To prevent power failure or possible failure of oxygen generator, when the patients in urgent need of oxygen and the critically ill patients absorb oxygen using this product, other standby oxygen supply devices (e.g.: oxygen cylinder, oxygen bag, etc.) must be provided.

6. If the medical oxygen generator can not work properly, or if you feel uncomfortable, please stop using immediately and consult physician or supplier to solve the problems.

7. Oxygen is a kind of combustion supporting gas, thus the oxygen generator can not be used in places with open flame or the danger of flammability, smoking or open flame is prohibited near people who absorb oxygen.

8. Power supply must comply with electrical safety regulations. Oxygen generator shall not be used when power supply protective earth terminal doesn't comply with the regulations, otherwise it may cause personal injury.

9. Please turn off the power and unplug the power cord before the cleaning and maintenance of medical oxygen generator.

10. People without authorization of the company shall not open the cover for maintenance.

2.2 Electromagnetic environment guidance

Electromagnetic Environment Guidance

Attention

1. This product is suitable for use in places including hospitals, family and other buildings connected with power supply of civilian low-voltage network.

2. Radio frequency energy used by this product is for internal operation only. Therefore, its radio frequency emission is very low, without impact on other electrical equipment nearby.

3. Due to the impact of radio transmitting devices or other sources of electrical noise in health care establishments, serious interference caused by too close distance or large transmitting power may cause interruption of this product.

4. If this happens, check the use places to find out the source of interference, and take the following measures to eliminate interference: 1) Turn off nearby devices before starting the machine; 2) Change the direction or location of interfering devices; 3) Increase the distance between interfering devices and this product.

2.3 Environmental protection description

Environmental Protection Description

Attention

Disposal of waste and residues shall comply with the legal provisions of corresponding countries.

3. Operating Principle

Oxygen generation process flow of AN series medical oxygen generator is shown in Fig. 1:

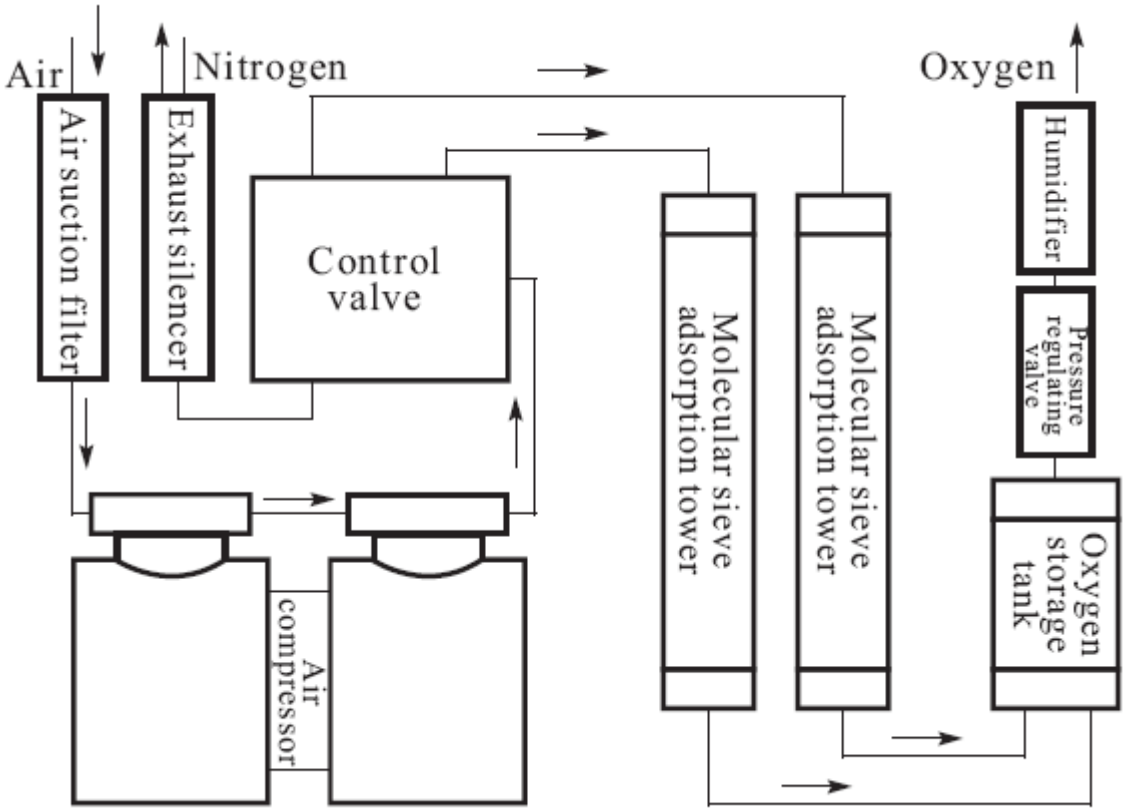


Fig. 1 Flow chart of medical oxygen generation

Our series medical oxygen generator uses molecular sieve as adsorbent, adopts the principle of pressure swing adsorption (PSA), sends the air after filtration into the molecular sieve adsorption tower for the cyclic process of pressurized adsorption and decompressed desorption, oxygen of high purity is thereby produced.

4. Structural Features

Our medical oxygen generator mainly consists of principal machine, flow meter and humidifier bottle, as shown Fig. 2.

Fig. 2　Outline drawing of AN series medical oxygen generator

5. Technical Indicators

The requirement of this medical oxygen generator for electric shock protection measures is Class Ⅱ, the requirement for electric shock protection degree is type B, in line with the provisions of the following standards:

GB 9706.1－2007 *Medical electrical equipment—Part 1: General requirements for safety*

YY 0732－2009　*Oxygen concentrators for medical use - Safety requirements*

YY 0709-2009 *Medical electrical equipment—Parts 1-8: General requirements for safety Collateral standard: General requirements　Tests and guidance for alarm systems in medical electrical equipment and medical electrical systems*

5.1 Operating environment (oxygen concentration status indicator)

Ambient temperature: 10℃ ~ 40 ℃

Relative humidity: 30% ~ 75%

Atmospheric pressure: 860hPa ~ 1060hPa

Power supply: 220V ± 22V, 50Hz ± 1Hz

There shall be no corrosive gas or strong magnetic field in surrounding environment

5.2 Air requirements

Impurities in raw material air: ≤0.3 mg / cm^3

Oil content in air: ≤ 0.01ppm

5.3 Product functions

Timing function: show the total working time through display screen

Time setting: set oxygen absorption time as required

Automatic shutdown: automatic shutdown after reaching preset oxygen generation time

Power failure alarm function

Low voltage alarm function

Low oxygen concentration alarm function

Circulating pressure failure alarm function

Air compressor short circuit alarm function

Atomization treatment function (only models with atomization function)

5.4 Technical indicators

1) **Physical and chemical indicators of oxygen:**

Oxygen concentration: ≥ 90% (V/V)

Water content: ≤0.07g/ m^3

Carbon dioxide content: ≤ 0.01% (V/V)

Carbon monoxide content: meet the requirements of table 1 in GB 8982－2009

Gaseous acid and alkali content: meet the requirements of table 1 in GB 8982－2009

Content of ozone and other gaseous oxides: meet the requirements of table 1 in GB 8982－2009

Odor: odorless

Particle size of solids: ≤ 10μm

Content of solids: ≤0.5 mg/m^3

2) **Technical indicators of product:**

The maximum recommended flow (when oxygen concentration ≥ 90%): 3L/min (models OLV-3-3 and OLV-3W); 5L/min (models OLV-5 and OLV-5W)

Flow range when outlet nominal pressure is 7 kPa (oxygen concentration ≥ 90%): 0～3L/min (models OLV-3

and OLV-3W); 0～5 L/min (models OLV-5 and OLV-5W)

At the recommended maximum flow, flow change when the back pressure of 7 kPa is applied: <0.5L/min

Flow range when outlet nominal pressure is 0 (oxygen concentration ≥ 90%): 0～3L/min (models OLV-3 and OLV-3W); 0～5 L/min (models OLV-5 and OLV-5W)

Operating noise of the machine: ≤40dB (A)

Timer error: not more than 3%

Output pressure: 20kPa ~ 60kPa

Release pressure of air compressor safety valve: 200kPa ~ 300 kPa

Oxygen concentration measurement: 0～95%, error≤±3%

Operating mode: continuous operation

Atomization quantity: ≥0.15mL/min (only models with atomization function)

Input power: 330VA+15% (models OLV-3 and OLV-3W); 500VA+15% (models OLV-5 and OLV-5W)

Power supply: 220V ± 22V, 50Hz ± 1Hz

Total weight: 19kg (models OLV-3 and OLV-3W); 22kg (models OLV-5 and OLV-5W)

External dimensions: 490×270×560 (mm) L × W × H

6. Product Installation

6.1 Unpacking inspection

Open the carton box from top of the packing box, and then open the plastic bag, pull up the medical oxygen generator by grasping the front and back handles of medical oxygen generator. Carefully check whether there is any transport damage to the medical oxygen generator, and then check the accessories and relevant documents according to the packing list.

6.2 Installation precautions

Installation Precautions

Attention

1. Medical oxygen generator shall be installed in indoor ventilating places without dust, corrosive, toxic or harmful gases or smoke. Avoid direct sunlight, and the distance from walls and other objects shall be greater than 10cm.

2. Medical oxygen generator shall not be installed in places with open flame, fire source, danger of flammability or explosion, humidity, too high or too low temperature. Besides, it shall not be used in a closed room (space).

3. No sundries, water or oil containers shall be placed on top of medical oxygen generator.

4. Medical oxygen generator shall not be placed on soft surfaces (e.g. bed, couch) that may cause tilting or sinking, avoid shutdown or oxygen concentration decrease caused by too high temperature due to blockage of air inlet or outlet.

5. Medical oxygen generator shall be placed smoothly, otherwise it will increase the noise during operation.

6. If grid voltage is instable and exceeds the range of 220 ± 22V, please install voltage stabilizer before use.

7. Be sure to install battery before use, otherwise it will lose some alarm functions.

8. Please use safe and qualified socket and the wiring board with safe electricity certification.

7. Product Use

7.1 Use precautions

Use Precautions

Attention

1. During use, ensure unobstructed exhaust at the bottom of medical oxygen generator, otherwise it may cause internal overheating.

2. When the output oxygen is less than the maximum recommended flow, oxygen concentration reaches 90%. When the flow exceeds the maximum recommended flow, oxygen concentration will reduce with the increase of flow.

3. Medical oxygen generator will reach the specified performance after started for 10 minutes.

4. There will be intermittent exhaust sound (every 6 seconds around) during operation of medical oxygen generator, which is normal.

5. No oil, grease or other similar substances shall be used on or near medical oxygen generator, and no lubricant other than those recommended by the manufacturer shall be used.

6. During use, timely add water when water level of humidifier bottle is below the minimum level.

7. During atomization treatment, please do not use medical oxygen generator for oxygen absorption.

8. Medical oxygen generator shall not be started frequently, it shall be restarted after stopped for 5 minutes.

9. When the indicated oxygen concentration is abnormal, stop using, and contact the dealer or manufacturer for inspection and maintenance.

10. Molecular sieve will become aging due to use time and environment etc., causing unrecoverable decrease of oxygen generation amount. In case of this phenomenon, please contact the dealer or manufacturer to replace the molecular sieve.

11. For long-term stopping of medical oxygen generator, be sure to unplug the power cord.

7.2 Operation

Control panel of medical oxygen generator is shown in Fig. 3.

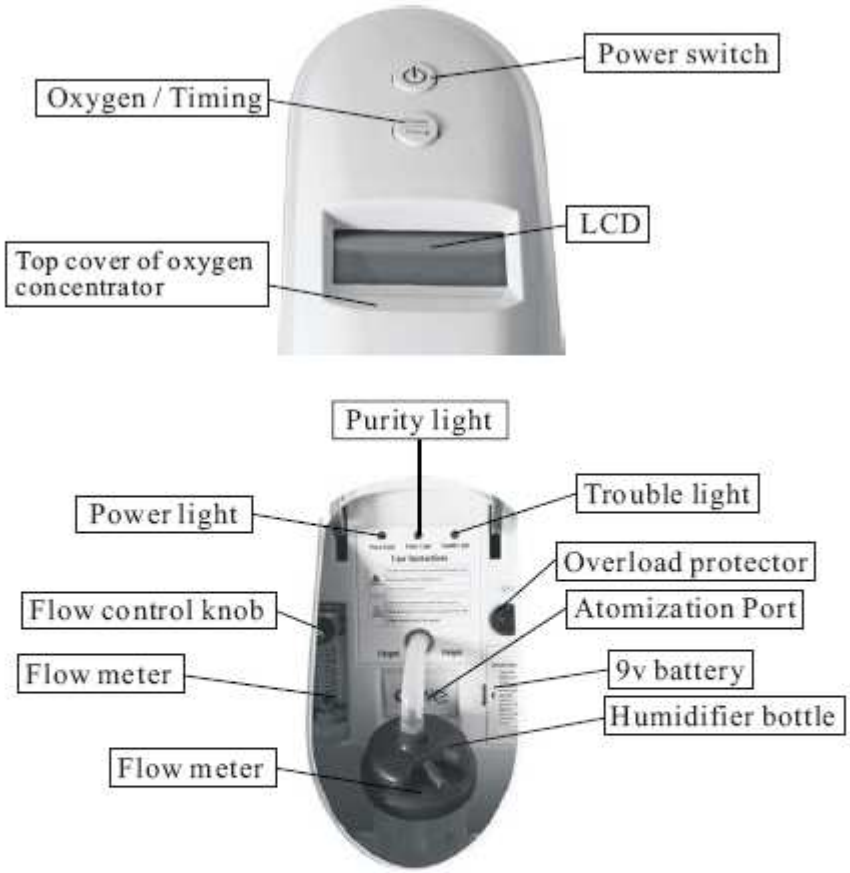


Fig. 3 Control panel

Fig. 4 Display when starting

Fig. 5 Display when starting

1) **Add water to humidifier bottle:** Pull out the silicone rubber tube from the bottle, take out the bottle. Add proper amount of pure water to the bottle, the water level shall be between the maximum (MAX) and minimum (MIN) water lines, and then tighten the bottle cap, put into the transparent cover and insert the silicone rubber tube.

2) **Power on:** plug in the power cord, press the "Power switch", the "Power" indicator will be on. Medical oxygen generator enters into the ready-to-start state, which means that the medical oxygen generator enters into the ready-to-start state

3) **Continuous/timed oxygen generation:** Press the "Oxygen generation/timing button", oxygen generator will be started and enters into "Continuous" oxygen generation working state. The LCD displays the total use time and other contents of oxygen generator, as shown in Fig. 5. After medical oxygen generator is started, press the "Oxygen generation/timing button" again, medical oxygen generator will enter into timed oxygen generation state, and the timing is 30 minutes (see Fig. 6), for each press of "Oxygen generation/timing button", preset time will be increased by 30 minutes (maximum preset time is 120 minutes); users can preset the time for oxygen generation as required. After a timing of 120 minutes, press the "Oxygen generation/timing button" again, oxygen generator without atomization function will stop oxygen generation, while oxygen generator with atomization function will

enter into atomization mode, press the "Oxygen generation/timing button" again, it will stop oxygen generation.

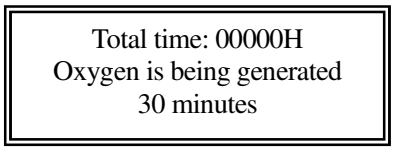


Fig. 6 Display of timed oxygen generation

4) **Adjust flow:** Open the transparent cover, slowly rotate the flow control knob to the desired flow rate (the reading shall be subject to the center of the black float) in the direction marked on the "Flow control knob". Meanwhile, there are bubbles in water in humidifier bottle, there shall be oxygen output from "Oxygen outlet".

5) **Start oxygen absorption:** Insert oxygen tube in the "Oxygen outlet" of humidifier bottle, close the transparent cover, after confirming that there is oxygen output from oxygen tube nose, wear the oxygen tube (see oxygen tube operating instructions for wearing methods of oxygen tube) to start oxygen absorption.

6) **Automatic shutdown:** After reaching the preset oxygen generation time, oxygen generator will automatically shut down. The display of LCD is shown in Fig. 7.

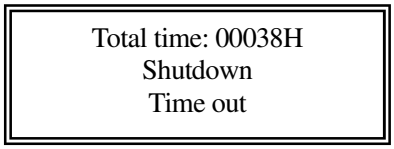


Fig. 7 Shutdown display

7) **Shut down immediately:** During operation of medical oxygen generator, press the "Power switch" on top cover, medical oxygen generator will shut down immediately.

8) **Atomization function:** (atomization models only)

1) Before using the atomizer, please refer to *Operating Instruction Manual for Atomizer*.

2) Open the transparent cover of oxygen generator, unscrew the plug from the atomization mouth, insert the air inlet pipe of the atomizer in the atomization mouth.

3) After medical oxygen generator is started, press the "Oxygen generation/timing button" for 5 times, oxygen generator with atomization function will enter into atomization mode.

4) After atomization is finished, pull out the air inlet pipe of atomizer, tighten the atomization plug.

5) For long-term stopping of medical oxygen generator, be sure to unplug the power cord.

7.3 Alarm functions

After medical oxygen generator is started and generates oxygen for 10 minutes, during normal operation, "Power", "Oxygen concentration" and "Fault" indicators are green.

In case of faults listed in Table 1, medical oxygen generator will send audible/visual alarm. Alarm functions are shown in Table 1.

Table 1 Alarm functions

Alarm item	Cause	Alarm sound	Color of indicators	Display of LCD
Power failure alarm	Power supply voltage interruption	Yes	Fault indicator Red	N/A

Low voltage alarm	Power supply voltage is less than 180V±10V	Yes	Fault indicator Red	Low voltage
Oxygen concentration alarm	65%(±3%)≤Oxygen concentration＜82%(±3%)	Yes	Oxygen concentration indicator Yellow	N/A
	Failure Oxygen concentration≤65%(±3%)	Yes	Oxygen concentration indicator Red	Low concentration
High pressure alarm	Circulating system pressure is high	Yes	Fault indicator Red	Shutdown High pressure
Low pressure alarm	Circulating system pressure is low	Yes	Fault indicator Red	Low pressure
Air compressor failure alarm	Short circuit of compressor	Yes	Fault indicator Red	Shutdown Air compressor failure

1) **Power failure alarm**

When grid voltage is suddenly interrupted (power failure), medical oxygen generator will stop working and send alarm sound, fault indicator will be red, please use after power on.

2) **Low voltage alarm**

When grid voltage is less than 150V ± 10V, medical oxygen generator will stop working and send alarm sound; fault indicator will be red; LCD displays "Low voltage", it is recommended to install voltage stabilizer.

3) **Oxygen concentration alarm**

After medical oxygen generator is started and generates oxygen for 10 minutes, under the circumstance that the output oxygen flow is not greater than the maximum recommended flow:

When oxygen concentration is 82%(±3%) or more, the oxygen concentration indicator is green. Medical oxygen generator works properly.

When oxygen concentration is within 65%(±3%)～82%(±3%), the oxygen concentration indicator is yellow and sends alarm sound, contact the dealer immediately, users can temporarily use the machine, and please ensure that there is standby oxygen.

When oxygen concentration is below 65%(±3%), the oxygen concentration indicator is red and sends alarm sound, LCD displays "Low concentration". Please shut down immediately. Use standby oxygen and contact the dealer for inspection or repair.

4) **High/low pressure alarm**

When circulating system pressure is high, medical oxygen generator shuts down and sends alarm sound; fault indicator is red, the LCD displays "High pressure".

When circulating system pressure is low, medical oxygen generator sends alarm sound; fault indicator is red, the LCD displays "Low pressure".

In case of high pressure or low pressure alarm, please use standby oxygen and contact the dealer for inspection or repair.

5) **Air compressor failure alarm**

In case of short circuit of air compressor circuit, medical oxygen generator shuts down and sends alarm sound; fault indicator is red; the LCD displays "Air compressor failure", medical oxygen generator stops running. Please use standby oxygen and contact the dealer for inspection or repair.

6) **Check whether the alarm system works**

When it is necessary to check whether the alarm system works, unplug the power cord when medical oxygen generator works normally, if the fault indicator becomes red and sends alarm sound, then the alarm system is normal, otherwise the alarm system can not work normally, contact the dealer for inspection or repair.

8. Maintenance

8.1 Maintenance considerations

Maintenance Considerations

Attention

1. Only the dealers authorized by the manufacturer or the qualified personnel after special training can conduct preventive maintenance or performance adjustment for medical oxygen generator.

2. In case of medical oxygen generator failure, contact the dealer or manufacturer for repair. Do not disassemble for repair by yourself.

3. Clean the humidifier bottle every day. Add pure water to humidifier bottle and the water level shall be between the maximum and minimum water levels.

4. Regularly clean air suction filtering foam and filtering cotton according to requirements. Clean in advance in case of too much dust. Oxygen generator shall not be started before filtering cotton and foam are installed.

5. Power cord is provided according to the power of oxygen generator, please do not replace arbitrarily.

8.2 Cleaning of humidifier bottle

To clean, first pull out the silicone rubber tube from humidifier bottle, take out the humidifier bottle. Humidifier bottle is generally cleaned with clean water, in case of any water scale, rinse with clean water after descaling. During cleaning, pay attention to cleaning the small air inlet hole at the bottom of the core tube in the bottle, so as to keep oxygen unobstructed.

After cleaning, sterilize (soak in disinfectant containing available chlorine of 500mg/L) and rinse with pure water. Add proper amount of pure water to the bottle, the water level shall be between the maximum (MAX) and minimum (MIN) water lines, and then tighten the bottle cap, put into the transparent cover and insert the silicone rubber tube.

8.3 Cleaning of atomizer (atomization models only)

After using the atomizer, pour out all residual liquid from atomizing cup, rinse with clean water.

After cleaning, sterilize (soak in disinfectant containing available chlorine of 500mg/L) and rinse with pure water.

8.4 Cleaning of primary air suction filter (filtering sponge) and secondary filter

Timely cleaning and replacement of primary air suction filter and secondary filter are very important for protecting air compressor and molecular sieve, and extending the service life of medical oxygen generator, please timely clean and replace according to requirements.

Primary air suction filter shall be cleaned once a week. During cleaning, draw out filtering sponge and rinse with clean water, it can be used after natural drying.

Secondary air suction filter shall be cleaned once every half month. During cleaning, unscrew the filter clockwise, take out the filter and rinse with clean water, after natural drying, install it to the original place and tighten counterclockwise.

8.5 Cleaning of medical oxygen generator

When turning off the power of medical oxygen generator, use a soft towel dipped with a small amount of neutral household cleaner to wipe the casing, and then use a dry towel to dry up. When wiping, pay attention to preventing liquid infiltrating into casing slot.

8.6 Replacement of battery

When the power failure alarm sound of medical oxygen generated is reduced significantly (users can check it by disconnecting the power supply of medical oxygen generator), it is necessary to replace the battery. Battery specifications: 9V alkali battery. To replace, open the battery compartment cover in the transparent cover, remove the old battery, insert new battery according to the marked polarity.

9. Troubleshooting

In case of any problems during use, before sending the machine for repair, please read this section carefully, you may simply solve the problems by yourself. If the problems can not be solved according to the examples in Table 2, please send the medical oxygen generator for repair. Do not attempt to repair or remove the casing of medical oxygen generator by yourself.

Table 2 Failure analysis and troubleshooting examples

Fault symptom	Check item	Measures
There is no display on LCD when starting or running, medical oxygen generator sends alarm sound.	1. Power failure? 2. Power cord is loose?	1. Use the machine after power on. 2. Check and insert the power cord properly.
Concentration indicator becomes yellow or red.	1. Oxygen flow is too large? 2. Molecular sieve becomes aging after long-term use?	1. Adjust the oxygen flow. 2. Replace molecular sieve.
	Note: Replacement of molecular sieve shall be conducted by professionals.	
Medical oxygen generator works normally, but no oxygen is outputted from oxygen tube.	1. Whether the oxygen tube is inserted properly? 2. Whether the humidifier bottle cap is tightened?	1. Insert the oxygen tube properly. 2. Tighten the humidifier bottle cap.
Medical oxygen generator works normally, but the flow can not be adjusted to the maximum value, bubbles in humidifier bottle are small.	1. Air suction filter is clogged with dust? 2. Oxygen tube is bent?	1. Clean or replace filter. 2. Unbend the oxygen tube.
Operating noise is large.	Whether medical oxygen generator is placed smoothly?	Place the medical oxygen generator smoothly.

Alarm fault indicator is red.	Low voltage	It is recommended to install voltage stabilizer.
Alarm fault indicator is red.	Circulating pressure is low.	1. Clean or replace filter. 2. If such situation continues, please contact the manufacturer.
Alarm fault indicator is red.	Circulating pressure is high.	Immediately stop using the machine, please contact the manufacturer.
Alarm fault indicator is red.	Air compressor failure	Immediately stop using the machine, please contact the manufacturer.
There is no alarm sound during power off, alarm indicator is not on.	Are the batteries dead?	Replace battery.
Other faults	Contact the manufacturer	

10. Transportation and Storage

10.1 Transportation and storage precautions

Transportation and Storage Precautions

Attention

1. Before transportation or storage, pour out the water from humidifier bottle.

2. During transportation and handling, medical oxygen generator shall be kept upright, prohibit inversion or horizontal placing.

3. When the storage temperature is below 10℃, place the medical oxygen generator in normal working environment for 8 hours before use.

4. Medical oxygen generator that has been stopped for long time shall be powered on for inspection before use again, and confirm that all functions are normal before use again.

10.2 Requirements for storage and transportation environment

Ambient temperature -20 ℃ ~ 50 ℃;
Relative humidity ≤ 95%;
Atmospheric pressure 500hPa～1060hPa

10.3 Transportation

Medical oxygen generator packed completely shall be protected from violent collision and direct contact with

rain or snow during transportation.

10.4 Storage

Medical oxygen generator shall be stored in indoor well-ventilated places without strong sunlight and corrosive gases.

11. After-Sale Services

11.1 Warranty period

In case of quality problems caused by non-human factors within one week since the date of sale, our company will be responsible for guaranteed repairing, changing and refunding; under normal use and storage conditions, the warranty period of this product is two years or 5,000 hours (whichever is earlier), the warranty period of compressor is three years. In case of any quality problems within warranty period, our company will repair for free; In case of any quality problems after the warranty period, our company will charge repair cost. If the users can not provide invoices, the warranty period shall be regarded as one month since the ex-factory date of the company.

11.2 Warranty scope:

The following circumstances shall not be within the free warranty of the company:

1) Damage due to improper operation of users or use under abnormal conditions;
2) Damage or deformation of machine (including components and parts) due to collision or falling;
3) Damage due to disassembly, repair or modification by users;
4) Damage caused by natural disasters;
5) Wearing parts and consumables: atomizer, filtering foam, filtering cotton etc.;

12. Accessories

Accessory Considerations

Attention

1. Do not use parts and accessories not recognized by the manufacturer, in order to avoid adverse effects on safety and product performance.

2. Medical oxygen generator shall use dedicated humidifier bottle, for replacement, please contact the dealer or manufacturer to purchase.

3. The presented oxygen tube is a disposable sterilization product, just for one person. Users can purchase qualified products with Medical Device Registration Certificate by referring to the model and specification of the presented sample.

13. Packing List

Table 3 Packing list of medical oxygen generator

No.	Name	Specification & Model	Unit	Qty	Remarks
1	Principle machine of medical oxygen generator	OLV-3 □ OLV-3W □ OLV-5 □ OLV-5W □	Set	1	
2	Power cord	0.75m ㎡×3	pc	1	
3	Nasal cannula		pc	2	
4	Nebulizer	Mouth-contained	Set	1	Only atomization models
5	Spare connecting tube of humidifier cup		pc	1	
6	Spare first air suction filter		pc	1	
7	Spare secondary air suction filter		pc	3	
8	User manual		pc	1	
9	Warranty card		pc	1	

14. Annexed Table and Figure

14.1 Meaning description of graphics, symbols and abbreviations

Table 4 Meaning description of graphics, symbols and abbreviations

Graphics, symbols and abbreviations	Location	Name	Meaning description
Warning	Relevant location	Warning sign	If ignoring this information and using improperly, it may cause personal injury.
Attention	Relevant location	Attention sign	If ignoring this information and using improperly, it may cause injury or loss.
	Nameplate	B-type equipment	It indicates that the medical oxygen concentrator is Type B equipment.
	Control valve knob	Adjusting direction	It indicates the direction to adjust the flow.
220V50Hz/ 110V60Hz	Back lower part of oxygen concentrator	Power supply	It indicates that the medical oxygen concentrator uses single-phase AC power supply 220 V, 50 Hz, or 110 V, 60Hz.
L/min O_2	Oxygen flow meter	Oxygen flow	Oxygen flow, indicating flow unit: L / min

14.2 Electric control chart

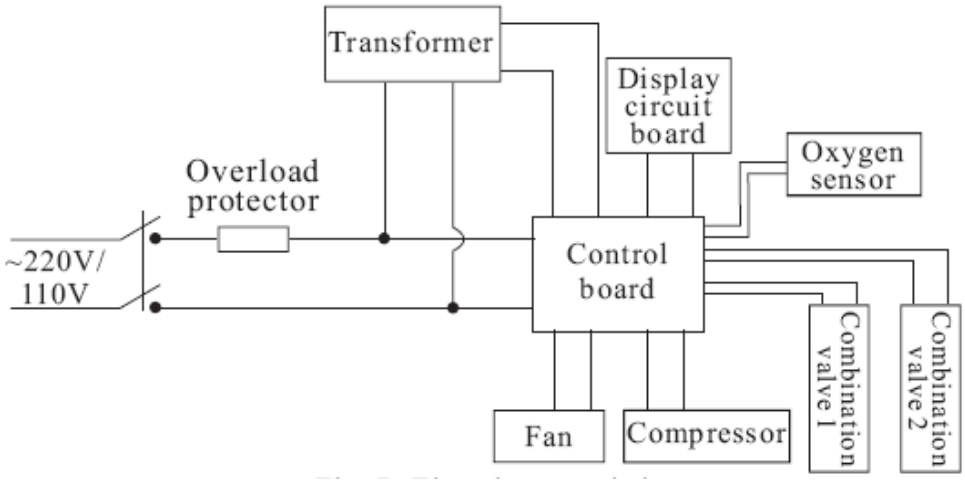


Fig. 7 Electric control chart

Note: if circuit diagram and necessary information are needed due to repair, please contact the manufacturer.

14.3 Oxygen concentration and flow diagram

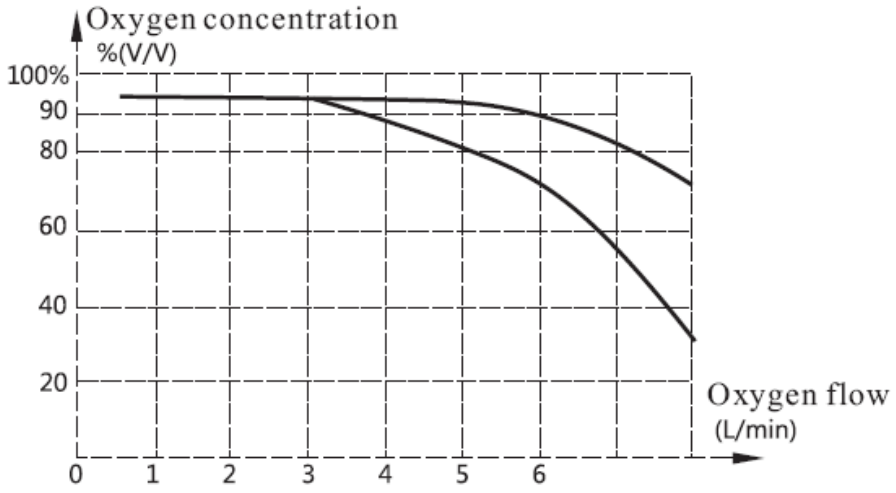


Fig. 8 Functional diagram of oxygen concentration and flow when the outlet nominal pressure is 0