

Oxygen Concentrator User Manual



Please read the instruction carefully before use the machine.

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1. Product Overview

Welcome to choose our oxygen concentrator !Our oxygen concentrator adopts AC 220V/AC 110V 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.

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.

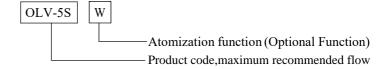
2. Scope of application

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

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.

4. Specification & model





Manufacturer:

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REP

EC

2. Safety Overview



etc.)must be provided. this product, other standby oxygen supply devices (e.g.: oxygen cylinder, oxygen bag, patients in urgent need of oxygen and the critically ill patients absorb oxygen using 5.To prevent power failure or possible failure of oxygen concentrator, when the 4. People suffering severe carbon monoxide poisoning shall not use this product. 3. Excessive use of high-purity oxygen has toxic and side effect on human body. control oxygen flow and oxygen absorption time under the guidance of physician. 2.Oxygen therapy may be harmful under certain conditions. Patients shall correctly not expressd is comfort or can not hear or see alarm signals require additional care. I. This product can not be used for life support or life sustaining. Patients who can

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

not be used in places with open flame or the danger of flammability, smoking or 7. Oxygen is a kind of combustion supporting gas, thus the oxygen concentrator can problems.

8.Power supply must comply with electrical safety regulations. open flame is prohibited near people who absorb oxygen.

9. Repairs must be performed by the company authorized service personnel only.

damage. Unauthorized service could cause injury, invalidate the warranty, or result in costly

Il. The product in areas with stable power grid. For continuously using this 10. User must be use the machine according to this user manual.

product under unstable power grid, an UPS is recommended.

13. Limited Warranty

Manufacturer warrants that the system shall be free from defects of workmanship and materials and will perform in accordance with the product specifications for a period of 2 years from the date of manufacture or 5000 hours(which one is earlier). This warranty does not cover damage caused by accident, misuse, abuse, alteration, and other defects not related to material or workmanship.

Manufacturer disclaims all liability for economic loss, loss of profits, overhead, or consequential damages which may be claimed to arise from any sale or use of this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

14. Packing List

No.	Name	Unit	Qty	Remarks
1	Machine	Set	1	
2	Nasal cannula	PCS	2	
3	Nebulizer	Set	1	Only atomization models
4	Connecting tube of humidifier bottle	PC	1	
5	Humidifier bottle	PC	1	
6	Air filter	PC	1	
7	Hepa filter	PC	1	
8	User manual	PC	1	
9	Warranty card	PC	1	

3. Structural Features

Our oxygen concentrator mainly consists of machine, flow meter and humidifier bottle, as shown Figure 1.

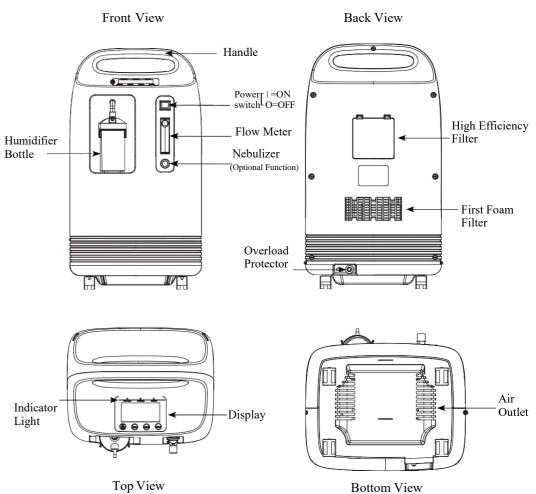


Figure 1

Overload protector: protect the machine from electricity overload.

Display: show the machine working status.

Air filter: prevents dirt, dust, and lint from entering your unit, include first foam filter and high efficiency filter.

12. Troubleshooting Guide

Connect to a back up oxygen source and contact your provider.		E. If any other problems occur with your oxygen concentrator.
Turn the flow rate down to your prescribed level. Wait at least 2mins, if the condition persists turn the unit off, connect a back up oxygen source, and call your provider.	The device has detected a high oxygen flow condition.	D. Yellow LED or Red LED is illuminated and the Audible Alarm is beeping periodically (Only the model with oxygen concentration alarm function)
Ensure that all connections are free from leaks.	There is a poor connection to a device accessory.	(All LEDs and the Audible Alarm are normal)
Inspect and replace the items if necessary	The oxygen tubing or cannula is faulty.	C. Limited oxygen flow to the user without any fault indication
Connect to a back up oxygen source and contact your provider.	Internal part failure.	B. The device is not working when it is turned on. (The Audible Alarm is sounding continuously and the red light is illuminated)
Connect to a back up oxygen source and contact your provider.	Internal part failure.	LEDs are off)
Check your household outlet fuse or circuit.	The unit is not receiving power from the electrical outlet.	when it is turned on. (The Audible Alarm is sounding continuously. All
Make sure the device is properly plugged in to the electrical outlet.	The power cord plug is not properly inserted into the electrical outlet.	A.The device is not working
oU ot tstW	Possible Cause	Problem

NOTE: Please contact the provider or manufacturer if there are any other malfunctions.

4. Technical Indicators

1. Operating environment (oxygen concentration statusindicator)

Ambient temperature: 10°C ~ 40°C Patrice branching 2000, 7500

Relative humidity: $30\% \sim 75\%$

Atmospheric pressure: 860hPa ~ 1060hPa

Power supply: AC 220V \pm 22V 50Hz \pm 1Hz AC 110V \pm 11V 60Hz \pm 1Hz

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

environment.

2. Air requirements

Impurities in raw material air: ≤ 0.3 mg / cm $^{\circ}$ Oil content in air: $\le 0.01 ppm$

3. Product functions

Total working time: Show the total working time through display screen.

Timing: Set oxygen absorption time as required.

Automatic shutdown: Automatic shutdown after reaching preset oxygen

concentration time.

Power failure alarm function.

Low voltage alarm function

Voice function.

Circulating pressure failure alarm function (Optional function)

Low oxygen concentration alarm function (Optional function)

Atomization treatment function (Optional function)

11. Symbols and Meanings for Security Requirements

\triangle	Warning	CE	CE mark
†	Type BF applied part		Class II equipment
О	Off (power)	I	On (power)
SN	Manufacture's serial number	EC REP	Authorized representative in the European community
\sim	Date of manufacture		Manufacturer
Z	Can not be thrown into the trash	<u>11</u>	This way up
I	Fragile		No smoking
	No open flame		Refer to instruction manual/booklet.
IP21	Protected against access to hazardous parts with a finger. Protected against solid foreign objects of Φ 12.5mm and greater. Protected against vertically falling water drops.	*	Keep dry

5. Product Installation

1. Unpacking inspection

Open the carton box from top of the packing box, and then take out the oxygen concentrator. Carefully check whether there is any transport damage to the machine and then check the accessories and relevant documents according to the packing list.

2. Installation precautions



Attention

- 1.Oxygen concentrator 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.Oxygen concentrator 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 oxygen concentrator.
- 4.Oxygen concentrator 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.Oxygen concentrator shall be placed smoothly, otherwise it will increase the noise during operation.
- 6.If grid voltage is instable and exceeds the range of 220V-230V AC or 110V AC, please install voltage stabilizer before use.
- 7.Please use safe and qualified socket and the wiring board with safe electricity certification.

10. Transportation and Storage

1. Attention



- 1. Before transportation or storage, pour out the water from humidifier bottle.
- prohibit inversion or horizontal placing. 2. During transportation and handling, oxygen concentrator shall be kept upright,
- normal working environment for 8 hours before use. 3. When the storage temperature is below 10° C, place the oxygen concentrator in
- all functions are normal before use again. 4. If the oxygen concentrator not use for a long time, please inspect it to make sure

2. Requirements for storage and transportation environment

Atmospheric pressure	500hPa ~ 1060hPa
Relative humidity	:%86 >
Ambient temperature	: D.SS ~ D. 07-

3. Transportation

and direct contact with rain or snow during transportation. Oxygen concentrator packed completely shall be protected from violent collision

4. Storage

strong sunlight and corrosive gases. Oxygen concentrator shall be stored in indoor well-ventilated places without

6. Product Use



Attention

- otherwise it may cause internal overheating. (1) During use, ensure unobstructed exhaust at the bottom of oxygen concentrator,
- (2). When the output oxygen is less than the maximum recommended flow, oxygen
- flow, oxygen concentration will decrease with the increase of flow. concentration reaches 90%. When the flow exceeds the maximum recommended
- (3). Oxygen concentrator will reach the specified performance after started for 10
- operation of oxygen concentrator, which is normal. (4) There will be intermittent exhaust sound (every 6 seconds around) during minutes.
- concentrator, and no lubricant other than those recommended by the manufacturer (5). No oil, grease or other similar substances shall be used on or near oxygen
- (6). During use, timely add water when water level of humidifier bottle is below the shall be used.
- (7). On the atomization mode, machine can't be used for oxygen freatment. minimum level.
- (8) Oxygen concentrator shall not be started frequently, it shall be restarted after
- (9). When the oxygen concentration is abnormal, stop using, and contact the stopped for δ minutes.
- (10). Molecular sieve will become aging due to using time and environment etc., provider or manufacturer for inspection and maintenance.
- phenomenon, please contact the provider or manufacturer to replace the molecular causing unrecoverable decrease of oxygen concentration amount. In case of this
- (11). For long-term stopping of oxygen concentrator, be sure to unplug the power cord.
- unit) is clean. (12). Before operating the unit please make sure the air inlet filter (on the back of
- (13) If liquid is spilled on the device, turn the power off and unplug from electrical
- undergoing oxygen therapy, seek medical assistance immediately to avoid harm. (14). If you feel discomfort or are experiencing a medical emergency while outlet before attempting to clean up spill.
- (15). Do not share nasal cannula and humidifier with other people to avoid cross
- (16). If the oxygen concentrator connected to the power, there should be people to infection.
- turn off the oxygen concentrator to prevent local ambient oxygen concentration sheet or chair cushion; oxygen will make the material flammable. When not in use, take care of the machine.do not leave the nasal cannula or mask on the bed

from increasing.

1. Use precautions

710			
745	704-787	Pulse modulation 217Hz, 9V/m	
780			
810			
870	800-960	Pulse modulation 18Hz, 28V/m	
930			
1720			
1845	1700-1990	Pulse modulation 217Hz, 28V/m	
1970			
2450	2400-2570	Pulse modulation 217Hz, 28V/m	
5240			
5500	5100-5800	Pulse modulation 217Hz, 9V/m	
5785			

Table 4 – Input a.c. power Port

	Basic EMC	Immunity test levels	
Phenomenon	standard	Professional healthcare facility and Home healthcare environment	
Electrical fast transients/burst	IEC 61000-4-4	±2 kV 100kHz repetition frequency	
Surges Line-to-line	IEC 61000-4-5	±0.5 kV, ±1 kV	
Conducted disturbances induced by RF fields	IEC 61000-4-6	3V, 0.15MHz-80MHz 6V in ISM bands and amateur radio bands between 0.15MHz and 80MHz 80%AM at 1kHz	
Voltage dips	IEC 61000-4-11	0% UT; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT; 1 cycle and 70% UT; 25/30 cycles Single phase: at 0°	
Voltage interruptions	IEC 61000-4-11	0% UT; 250/300 cycles	

- (17). When the altitude, ambient temperature, and relative humidity of the use environment exceed the requirements of the use environment specified in this manual, it may cause a decrease in oxygen concentration and shutdown, which will affect the quality of the user's treatment.
- (18). For wastes, residues should be handled in accordance with the corresponding national requirements.
- (19). Normally life of oxygen concentrator is 5 years.
- (20). Oxygen tube and nebulizer kits order by users but user can choose according to manufacturer's guidance.

2. Operation

Control panel of oxygen concentrator is shown in Figure 2.

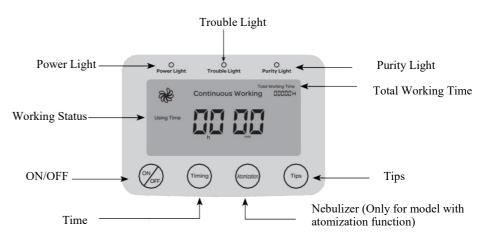


Figure 2

- (1). Select a location that allows the concentrator to draw in room air without being restricted. Make sure that the device is at least 10cm away from walls, furniture, and especially curtains that could impede adequate airflow to the device. Do not place the device near any heat source.
- (2). After reading this user manual, plug the power cord into a electrical outlet.

broadcast antennas, before using this equipment, it should be observed to verify that it is operating normally to assure that the equipment remains safe with regard to electromagnetic disturbances throughout the expected service life.

EMI Compliance Table (Table 1)

Table 1 - Emission

Professional healthcare facility and Home healthcare environment	IEC 61000-3-3 Compliance	Voltage fluctuations and flicker
Professional healthcare facility and Home healthcare environment	IEC 61000-3-2	Harmonic distortion
Professional healthcare facility and Home healthcare environment	CISPR 11 Group 1, Class B	snoissimə AA
Electromagnetic environment	Сотріївпсе	Ърепошепоп

EMS Compliance Table (Table 2-4)

Table 2 - Enclosure Port

m/A0£ zH0∂ ro zH0č	IEC 91000-4-8	Rated power frequency magnetic fields
Refer to table 3	IEC 91000-4-3	Proximity fields from RF wireless communications oquipment
1/V0m 80/WHz-2.7GHz 2/WHz at 1/kHz	IEC 91000-4-3	Radiated RF EM field
±8 kV contact ±2kV, ±4kV, ±8kV, ±15kV air	IEC 91000-4-2	Electrostatic Discharge
Professional healthcare facility and Home healthcare convironment	Basic EMC standard	Ъреиошеиои
Immunity test levels		

Table 3 – Proximity fields from RF wireless communications equipment

FM, ±5kHz deviation, 1kHz sine,28V/m	024-084	057
Pulse modulation 18Hz, 27V/m	380-390	385
Home healtheare environment	(711141)	(zHM)
Professional healthcare facility and	(ZHM)	Test frequency
Immunity test levels	Band	wordenbert teaT

(3). Do either Step or Step below.

If you are not using a humidifier, connect your nasal cannula to an oxygen

outlet port, as shown in the Figure 3.

2 If you are using a humidifier, follow the steps below:

A. Fill the pure water (or distilled water) to your humidifier, the water level is between" Max ' and "Min".

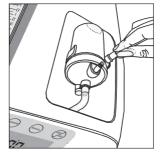
B. Lock the humidifier into the sink part, then connect oxygen outlet port to

the top of the humidifier, as shown in the Figure 4.



Figure 3 Figure 4

C. Connect your cannula to the humidifier bottle, as shown in the Figure 5.



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9. Electromagnetic Environment Guidance

This electrical medical equipment needs special precautions regarding EMC and put into service according to the EMC information provided in the user manual; The equipment conforms to this IEC 60601-1-2:2014 standard for both immunity and emissions. Nevertheless, special precautions need to be observed:

> The equipment with following ESSENTIAL PERFORMANCE is intended used in Home healthcare environment

Essential Performance:

- 1. The solenoid valve and each indicator light should work normally five minutes after the medical oxygen concentrator is turned on. Oxygen should be output, and alarm function should be available in case of failure.
- a) When the output oxygen concentration is lower than 82% (volume fraction), there should be an audible and visual alarm.
- b) When the compressor, solenoid valve or pipeline breaks down in the system, it shall make an audible and visual alarm.
- c) When the network power is interrupted and the equipment cannot work normally, it shall make a red-light alarm.
- 2. Temperature rise of medical oxygen concentrator: Under normal working conditions, the maximum temperature of the plastic housing is ≤48°C, and the gas temperature at the oxygen outlet of the oxygen concentrator is ≤41°C.
- ➤ WARNING: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally".
- > The use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
- ➤ WARNING: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the product, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result."
- ➤ WARNING: If the use location is near (e.g. less than 1.5 km from) AM, FM or TV

- (4). Press the power switch to the ON [I] position. Initially, the LED display will illuminate.
- (5). Press ON/OFF button, the device is turned on. You can begin breathing from the device immediately even though it typically takes mins to reach oxygen purity specifications. (Figure 6)
- (6). Adjust the flow to the prescribed setting by turning the knob on the top of the flow meter until the ball is centered on the line marking the specific flow rate. (Figure 7)





Figure 6

Figure 7

- (7). Put on the nasal cannula, then you can use machine properly.
- (8). When you are not using the oxygen concentrator, press the power switch to the OFF [O] position.

8. Technical Parameter

Device operation above or outside of the voltage, LPM, temperature, humidity and/or altitude values specified may decrease oxygen concentration levels.					
uim/	101-0	nim/J&-0 nim/J&-0		Flow range when outlet nominal pressure is 0	
uim/7	101-0	nim/J	nim/J&-0 nim/J&-0		Flow range when outlet nominal pressure is 7kPa
		0 KPa \pm 5 0KPa	57		Release pressure of air compressor safety valve
(notion)	ant noitszimo	modes with at	ylnO)nim\ln	ıč1.0≤	Viinnsup noitszimotA
		>40dB(A)			The sound pressure of auditory alarm signal
Continuous flow					working System
mm078×mm025×mm02£				Dimension	
Kg	87	32	731	21Kg	Net Weight
(A)8	[P0 <i>S</i>	(A)8	IPSt	45dB(A)	Whole machine noise
$\forall \Lambda$	008	VΛ	200	350VA	Input Power
70КРа-60КРа				Output Pressure	
VC 570Λ∓57Λ 20Hz ∓1Hz \VC 110Λ∓11Λ 60Hz ∓1Hz				Power Supply	
%€∓%E6				Oxygen Concentration	
uim/	nim/J01-0 nim/J2-0 nim/J2-0			mumixsM vof bebnemmoser	
MS01-ATO	OFA-10S	мѕѕ-лпо	SS-V10	SE-7/10	Model No.

3. Working mode:

Continuous working mode:

Press the "ON/OFF "button, oxygen concentrator will be started and enters into "Continuous" working state. The LCD displays the total working time.

Timer working mode:

After oxygen concentrator is started, press the "timing", oxygen concentrator will enter into timed working mode, for each press of "timing", preset time will be increased 30 minutes (minimum preset time is 3 hours); Users can preset the time as required.

4. Function:

:sqiT

Press "Tips" button more than 3 seconds, to get instructions with voice.

② Atomize(atomization model only):

Press "Atomize" button, the machine will enters into atomize working state.

(3) Automatic shutdown:

After reaching the preset time, oxygen concentrator will automatically shut down.

5. Defaults inspection and alarming signal

The oxygen concentrator will give audible and visual alarms when the alarms happen. Please deal with alarms immediately.

A. When power is lost for less than or equal to 30s, the alarm settings prior to the

power loss shall be restored automatically

B. The oxygen concentrator is applied with the following default inspection

Discessing circulation d

Pressure, circulation defaults Compressor defaults.

Low oxygen concentration

3. Clean of humidifier bottle

Remove humidifier bottle from the machine. Wash and clean it with warm water. In case of any water scale, rinse with clean water after descaling.

After cleaning, mix white vinegar with hot water in ratio of 1:3, soak the humidifier bottle in the mixture for 30 mins for sterilization.

During cleaning, pay attention to cleaning the small air hole at the bottom of the core tube in the bottle, so as to keep oxygen unobstructed.

Service: Do not remove the covers of this device. Only authorized provider or trained personnel of the manufacturer can perform maintenance.

(1). The meaning of indicator lights

Symbols	Condition	Indicator lights	Audio indicator	Description
2	Good condition:oxygen concentration ≥ 82%(+3%)	Green	None	Normal oxygen output
(!)	72%(±3%) ≤ oxygen concentration < 82%(+3%)	Yellow	Intermittent alarming sound	Low oxygen output
4	System defaults 1)Oxygen concentration < 72%(±3%); 2) Pressure, circulation defaults alarming; 3) Compressor defaults alarming.	Red	Continuous alarming sound	Excessively low oxygen output; Critical fault of device.

(2). Oxygen concentration alarm (Optional function)

When the oxygen concentration \geq 82% (3%)---green light lighten, which means the machine operates smoothly.

② When $72\%(\pm 3\%) \le$ oxygen concentration < 82%(3%) ---yellow light lighten, please contact with the supplier immediately. User can temporarily use the machine, and please ensure there is standby oxygen.

When oxygen concentration $< 72\% \, (\pm 3\%)$ --- the red light lightens with continuous alarming sound, the machine stops. Please power off the machine immediately and use the standby oxygen, contact with the provider as soon as possible.

NOTE: every time the oxygen concentrator starts, it will be in the most stable condition after about 30 minutes.

(3). Pressure, circulation defaults alarming---the red light lightens with continuous alarming sound, the machine stops.

Please power off the machine immediately and use the standby oxygen, contact with supplier as soon as possible.

6. How to check oxygen working normally

The operator can check whether the oxygen concentrator is operating normally by the following methods:

- (1) After the oxygen concentrator is turned on for 10 minutes, the power indicator and oxygen concentration indicator should be green, and the fault indicator should not be on.
- (2) In the state of oxygen generation, block the oxygen outlet of the oxygen concentrator by hand, and the flowmeter should be able to return to the "0" position.

7. Cleaning & Maintenance

Warning: It is important to unplug the device before the cleaning and

maintenance of oxygen concentrator.

Caution: Excess moisture may impair the proper operation of the device.

Periodically use a damp cloth to wipe down the exterior case of this device. 1. Clean of Device

2. Clean or replace the filter

and molecular sieve and extending the working time of oxygen concentrator. The cleaning and changing of filter is very important for protecting compressor

Please timely clean and replace according to requirements.

WARNING: Oxygen concentrator shall not be started before filter are installed.

Clean of first foam filter.

The first foam filter should be cleaned once a week. During cleaning, draw out

foam filter and rinse with clean water, it can be used after natural drying.

Replace of high efficiency filter(Called Hepa filter)(Figure 9).

the Hepa filter. Open the filter window, remove the high Hepa filter, and then When the machine total working time reach to 3000 hours. The user has to replace

replace with a new one.

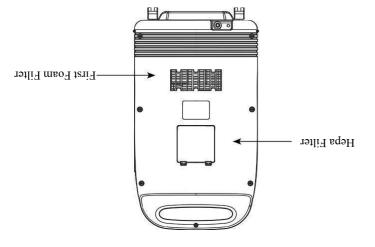


Figure 9

Oxygen concentrator process flow of our series medical oxygen A.Operating Principle normally, you should contact the dealer for inspection or repair. operating normally. Otherwise, the oxygen concentrator is not operating If the above two points are met, it means that the oxygen concentrator is

concentrator is shown in Fig. 8:

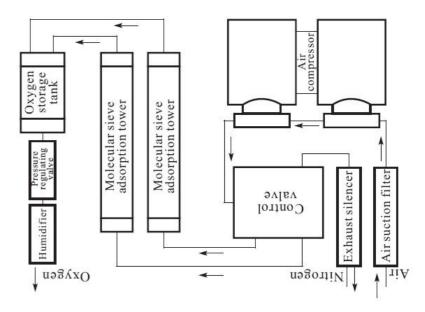


Figure 8

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