

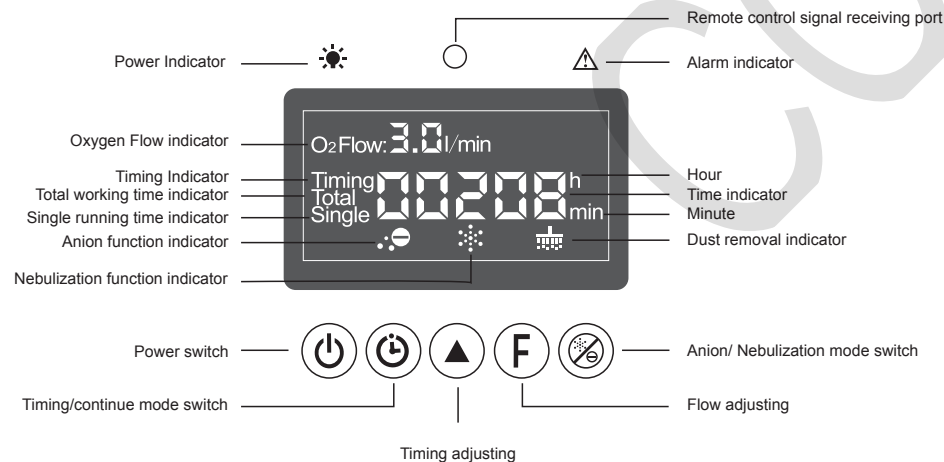
## The product packing list

| No. | Category               | Quantity   | Note               |
|-----|------------------------|------------|--------------------|
| 1   | Oxygen Concentrator    | One Set    |                    |
| 2   | Nasal Cannula          | One Piece  |                    |
| 3   | Headset Oxygen Cannula | One Set    |                    |
| 4   | Power Line             | One Piece  |                    |
| 5   | Inlet Filter Cotton    | Two Pieces |                    |
| 6   | HEPA Filter            | One Piece  |                    |
| 7   | Instructions for use   | One Piece  |                    |
| 8   | Fuse                   | One Piece  |                    |
| 9   | Warranty card          | One Piece  |                    |
| 10  | Neulizer               | One Set    | N, NW model        |
| 11  | Vehicle Power Inverter |            | Optional for AM 1L |
| 12  | External battery       |            | Optional for AM 1L |
| 13  | Trolley Bag            |            | Optional           |

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## Specification



| Type                              |                                     |        |        |         |            |        |        |         |            |        |        |         |
|-----------------------------------|-------------------------------------|--------|--------|---------|------------|--------|--------|---------|------------|--------|--------|---------|
| Funtion                           | AM-1                                | AM-1-W | AM-1-N | AM-1-NW | AM-2       | AM-2-W | AM-2-N | AM-2-NW | AM-3       | AM-3-W | AM-3-N | AM-3-NW |
| Rated power(VA)                   | 90                                  |        |        |         | 135        |        |        |         | 210        |        |        |         |
| Working voltage                   | ~ 220V 50 ~ 60Hz / ~ 110V 50 ~ 60Hz |        |        |         |            |        |        |         |            |        |        |         |
| Rated flow (L/min)                | 1                                   |        |        |         | 2          |        |        |         | 3          |        |        |         |
| Oxygen concentrations(V/V)        | 93±3%                               |        |        |         |            |        |        |         |            |        |        |         |
| Anion                             | yes                                 |        |        |         | yes        |        |        |         | yes        |        |        |         |
| Power Failure Alarm               | yes                                 |        |        |         | yes        |        |        |         | yes        |        |        |         |
| Temperature Alarm                 | yes                                 |        |        |         | yes        |        |        |         | yes        |        |        |         |
| Purity Alarm                      | no                                  | yes    | no     | yes     | no         | yes    | no     | yes     | no         | yes    | no     | yes     |
| Nebuzlier                         | no                                  | no     | yes    | yes     | no         | no     | yes    | yes     | no         | no     | yes    | yes     |
| The machine noise (dB (A) )       | ≤40                                 |        |        |         | ≤45        |        |        |         | ≤48        |        |        |         |
| The weight (Kg)                   | 7.2                                 |        |        |         | 7.7        |        |        |         | 7.4        |        |        |         |
| Overall dimensions (mm)           | 325×196×325                         |        |        |         |            |        |        |         |            |        |        |         |
| The oxygen outlet pressure (KPa)  | ≥40                                 |        |        |         |            |        |        |         |            |        |        |         |
| Nebulization outlet pressure(MPa) | no                                  |        | >0.1   |         | no         |        | >0.1   |         | no         |        | >0.1   |         |
| Remote Control                    | Optional                            |        |        |         | Optional   |        |        |         | Optional   |        |        |         |
| Use in car by power inverter      | Optional                            |        |        |         | Non-option |        |        |         | Non-option |        |        |         |
| External battery                  | Optional                            |        |        |         | Non-option |        |        |         | Non-option |        |        |         |
| Trolley bag                       | Optional                            |        |        |         | Optional   |        |        |         | Optional   |        |        |         |

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- Attached with oxygen concentrator electric circuit diagram

## Name and function of each part



## Transportation and storage conditions

Ambient temperature range:-20-45℃ ;

Range of relative humidity: 95% or less

The atmospheric pressure range: 500 ~ 1060 hpa

## Warranty

Whole device Maintenance Scope: See Maintenance Card for details.

Paid Service Scope:When service period exceeds one year, paid maintenance service will be provided for service lifetime.

Damage caused by natural disaster.Failure to present Maintenance Card or purchase invoice.

S/N in Maintenance Card is inconsistent with device that needing maintenance.

During warranty period, we will only provide paid maintenance instead of free maintenance for the following malfunction caused by users.

Malfunction caused by unauthorized dismantling or refitting;

Malfunction caused by the careless drop in use or handling;

Malfunction caused by lack of reasonable maintenance;

Malfunction caused by failure to operate the product in accordance with the proper guide in these instructions.



|   |                                                                                                                                             |                                                                                                                                                                                                            |                                                                                                                                                                |
|---|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | Remote control can not start oxygen concentrator after the power supply is connected                                                        | There is no battery/cell inside remote control;<br>Remote control is too far from oxygen concentrator or open angle too wide;<br>Remote control is damaged or remote control port on the panel is damaged. | Change battery;<br>Adjust the distance or the angle between remote control and the receiving port on the machine;<br>Contact after-sales maintenance personnel |
| 5 | After oxygen concentrator works there is no or a little oxygen at the oxygen outlet and there are no obvious bubbles in the humidifier cup. | Nasal cannula is kinked or damaged                                                                                                                                                                         | Straighten out or change nasal cannula                                                                                                                         |
|   |                                                                                                                                             | Air leakage occurs in the interface of humidifier cup and machine                                                                                                                                          | Re-install humidifier cup                                                                                                                                      |
|   |                                                                                                                                             | Air inlet filter or HEPA filter is blocked                                                                                                                                                                 | Check and clean air inlet filter or change HEPA filter                                                                                                         |
|   |                                                                                                                                             | Internal faults                                                                                                                                                                                            | Contact after-sales maintenance personnel                                                                                                                      |

Note: All alarms of oxygen concentrator are medium priority.  
When alarms occur, please contact the manufacturer or after-sales maintenance personnel in a timely manner.

#### (6) Cleanliness of nebulizer:

After using nebulizer and connecting pipe, rinse them with detergent and clean water;  
wash nebulization mouth and mask with clean water first, then soak in medical alcohol for 5 minutes or  
sterilize and disinfect it in ultraviolet light, then rinse it with clean water again, put it in the sack after drying.

### Trouble shooting guide

| No. | failure phenomenon                                                                                                     | causes                                                                                                                                                     | elimination method                                                                                                                                                             |
|-----|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Power failure alarm After pressing the power switch oxygen concentrator has a continuous hum, the machine doesn't work | Power plug is not plugged properly;<br>Indoor power socket is electrically neutral;<br>Circuit board of oxygen concentrator is damaged;<br>Fuse is damaged | Check whether the power plug is plugged properly;<br>Check the indoor power supply;<br>Contact after-sales maintenance personnel;<br>Manually change fuse and check the reason |
| 2   | temperature alarm oxygen concentrator has a                                                                            | axial flow fan does not work                                                                                                                               | contact after-sale maintenance personnel                                                                                                                                       |

## Foreword

Thank you for purchasing the oxygen concentrator of our company ,and we hope you are satisfied with our products.

This instruction manual describes the product's function, operation steps and matters needing attention, as well as the basic fault exclusion, etc.

In order to be able to safely use this product, please read the instruction manual carefully before use.

After reading, please properly keep it in order to look up for reference at any time.

Please note that due to product improvements, We apologize if some of the illustrations in this instruction manual might not be completely the same with what you see in the machine

## Attention Pay attention !

- The device shall be used in a clean, dustless and well-ventilated space without toxic gas, where it will not be corroded.
- To prevent the device from damaging, please do not run the device before the installation of its high efficiency filter, or complete drying of intake filter cotton.
- When using the device, ensure that the exhaust from the bottom vent is being expelled properly, otherwise the device may overheat.
- Laying the device on its side or inverting is strictly prohibited during handling.
- Clean water in the bubble humidifier cup shall be poured out to prevent water backflow when transporting the device.
- There will be intermittent exhaust sound when using the device (the interval is about 5 seconds).
- The device shall not be started or stopped frequently. The interval time of restart after stop shall not be less than 5 minutes. ( that is to say air in the device must be exhausted completely to prevent air compressor from starting under pressure, thus affecting its lifespan)
- When the machine is shutdown the fan will continue to operate for a period of time to facilitate to exhaust the hot air inside the machine.
- Bubble humidifier cup shall be filled with distilled water or cold boiled water, and the amount added shall be between the maximum and minimum scale lines.

Safety notice! ⚠ Pay attention!

- This product is used for oxygen supplement, not for life support or life extension. And it is suggested that when using the device the patient's oxygen flow and inhalation time shall be set according to doctor's guidance.
- Due to combustion effects of oxygen, please place the oxygen concentrator over 1.6 meters away from the objects which may produce sparks or bare electric line or flame and please use indoors.
- Please don't smoke when you are taking in oxygen or close to the ongoing oxygen users.
- Please don't place the oxygen concentrator near the strong magnetic field or electromagnetic interference sources.
- Do not use nasal tube under cover or chair cushion, please be careful not to twist or knot nasal tubes.
- Shut off the power switch when you are not taking in oxygen.
- Oil or grease are disabled on the oxygen concentrator.
- Before you do any maintenance work, please make sure that oxygen concentrator has been blackouts in case of electric shock.
- To avoid electric shock, please don't open the oxygen concentrator shell on its own.  
If there is any quality problem, the customer shall not remove parts or maintenance without authorization.  
If you find the abnormal phenomenon such as alarm you should contact the dealer or manufacturer.
- Please don't pour liquid directly on the product shell, oxygen concentrator shell are not allowed to use organic solvents or cleaning agent.

|   |                                                                                                                   |                                                                                                   |                                                                                                                                     |
|---|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|   | discontinuous hum<br>display shows E: 01<br>Machine stop working                                                  | Bottom vent is blocked                                                                            | Check whether bottom vent is unblocked                                                                                              |
| 3 | O2 concentration alarm.<br>Oxygen Concentrator<br>has alarm sound ,red<br>light is ON, and display<br>shows E: 03 | Compressor is damaged;<br>Molecular sieve tank error;<br>Oxygen purity sensor board<br>is damaged | Contact after-sales maintenance personnel<br>Contact after-sales maintenance personnel<br>Contact after-sales maintenance personnel |

- In the oxygen concentrator, bubble humidifier cup, air inlet filter cotton, and high efficiency filter shall be cleaned.  
The bubble humidifier shall be cleaned about every 3 days, external air inlet filter cotton shall be cleaned about every 100 hours, and high efficiency filter shall be changed about every 1500 hours.
- Please confirm the power is turned on with a smooth oxygen outlet.
- If the device stays idle for several days, please pour water in the bubble humidifier cup out entirely and dry it.
- Nasal cannula that conform to the supporting product specifications must be used. If other nasal cannula are used, check carefully that they are closely and reliably connected to the oxygen concentrator. Nasal cannula is for one-time use or for the user only. After using, nasal cannula shall not be thrown away and shall be carried out in accordance with medical waste classification treatment to prevent the environment pollution.
- To prevent cross contamination, nasal cannula and nebulizer shall be just for one person.
- Effective distance of remote control is 5m. When the effect is bad, please shorten the distance or replace the remote control cell.
- Nebulizer should be used with the medical device registration certificate.

(4) Change of high efficiency filter (can be done by user):

Replace the hepa filter of the oxygen concentrator after using every 1500 hours. Open the the inlet window on the right side of the machine shown in figure, to remove the old high efficiency filter, and install the new high efficiency filter .



(5) Change of fuse:

The fuse is under the power switch at the back of the machine as shown in the figure below, unscrew fuse socket with a screw driver, replace it with the new fuse, then screw the fuse socket well.



## Maintenance instructions

1) Cleanliness of humidifier cup (can be done by user)

\*Remove humidifier cup from the machine. Wash and clean it with warm water and tableware detergent and rinse it clean with clean water.

\*Mix white vinegar with hot water in a ratio of 1:3, soak the humidifier cup in the mixture for 30 minutes for sterilization.

\*After rinsing humidifier cup thoroughly with warm water, dry it and set aside.

(2) Cleanliness of shell (can be done by user)

Please use a clean and soft wet towel with a little neutral furniture detergent to clean the enclosure, wipe out all parts of the enclosure, and then use dry towel to dry it. Clean 1-2 times(s) per month.

Be sure that the device is fully powered down before beginning cleaning.

(3) Cleanliness of air inlet filter (can be done by user)

Remove the air inlet window on both sides as shown in figure 3. Take out the inlet filter cotton,

then wash and clean them with warm water and tableware detergent and rinse it clean with clean water and remove any excessive moisture.

Then let it air dry, and re-install the filter after it has completely dried.



Figure 3

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(4) Adjust oxygen flow as needed by flow adjusting button.

\*Boot display is previous use mode

\*Screen display the approximate oxygen concentration at corresponding flow.

(5) Insert the inlet terminal of nasal cannula to the oxygen outlet, place the nasal cannula over the user's ears, and insert the nasal plug of nasal cannula into the nares of the user for oxygen intake.

It is advisable to do oxygen therapy for 30-60 minutes every time.

(6) After using the device, turn off the power switch. If the device is not going to be used again in the near future, please unplug the power plug.

(7)Timing oxygen inhalation. When the user needs timing oxygen inhalation press Timing/continue mode switch key (Ⓢ) first, then timing function indicator (⌚) flashes on the screen , and press timing adjusting key (▲) to set the timing time as needed(10 minutes every interval and 5 hours at maximum),then press Timing/continue mode switch key (Ⓢ) to enter into timing oxygen inhalation state with timing function indicator (⌚) keeping on.

Under timing state, the user may press Timing/continue mode switch key (Ⓢ) to enter into continuous state.

(8)The use of remote control. Ensure power is connected first, aim remote control at Remote Control Port on oxygen concentrator, and then press keys on remote control to start oxygen concentrator. The functions of keys on remote control are the same with the ones on the panel of oxygen concentrator.



Figure 1

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AM-1 type with car use requires car cigarette lighter load electric power of more than 240 W

( fuse loads electric current of more than 20A) and output voltage DC12V.

## Scope of application

This equipment is mainly suitable for making health care with oxygen.

## Product Use Environment

Ambient temperature: 10 ℃ to 40 ℃ ;

Relative humidity: 30% ~ 85%;

Atmospheric pressure: 700 hpa and 1060 hpa;

No corrosive gas environment and strong magnetic field.

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## Product introduction

Principle: This product is a kind of small portable oxygen concentrating equipment, which uses the principle of Pressure Swing Adsorption(PSA). With air as the raw material and zeolite molecular sieve(ZMS) as the absorbent, it separates oxygen from nitrogen and other gases in the air and then, after being power on and under normal temperature and pressure, oxygen with high purity can be continuously separated from the air.

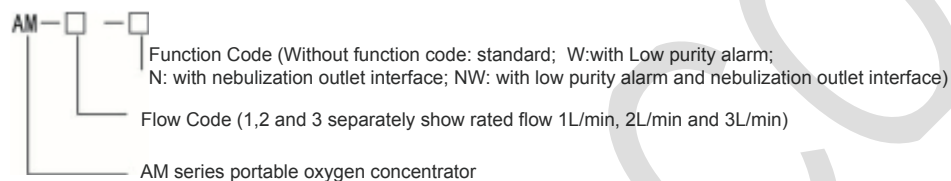
The use of the product will not affect oxygen content of the surrounding air.

For working principles, please refer to the schematic diagram.

Composition: This product is composed by oxygen-generating host, flow indicator, alarm system and nebulization interface (optional). It adopts the principle of pressure swing adsorption with a molecular sieve bed to generate 90%-96% oxygen.

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## Model specification



Example:

AM-1 represents standard one with rated flow 1L/min;  
AM-1-W represents with low purity alarm on AM-1 basis;  
AM-1-N represents with nebulization outlet interface on AM-1 basis;  
AM-1-NW represents with low purity alarm and nebulization outlet interface on AM-1 basis.

\* This product types are subject to change without prior notice, please understanding.

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9) Anion function. It can start by pressing the anion keys on the panel or on remote control, then the icon  $\ominus$  lights up.

10) Nebulization function. Put liquid drug inside the bottle according to the doctor's advise, tightly capped bottle cup of liquids, connect one end of the tube of connection interface of the nebulizer to oxygen outlet on the oxygen concentrator (as shown in figure 2). Press Nebulization key on the operation panel or remote control. When the icon  $\oplus$  lights up, nebulization treatment starts.

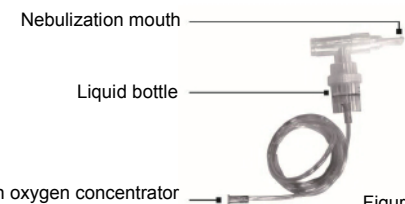


Figure 2

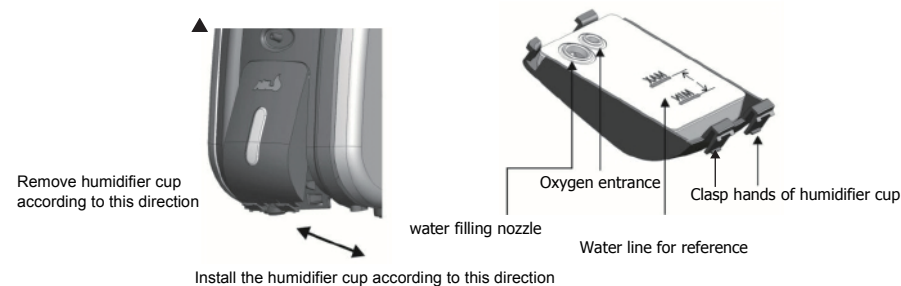
11) The use of vehicle type inverter:

Before use, please confirm that the car cigarette lighter power is in accordance with the requirements; Please insert the vehicle-mounted inverter to cigarette lighter interface after car start, so as to avoid car instantaneous current strike damage; Please pull out inverter cable from the cigarette lighter after using it.

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## Operation steps

- 1) Oxygen concentrator shall be placed in such a place with an easy oxygen supply and good ventilation, and shall be kept at least 20 cm away from the surrounding walls, curtains, and other objects.
- 2) Remove the humidifier cup, inject appropriate amount of distilled water or cold boiled water between the maximum scale line and minimum scale line, and then re-install the humidifier cup (reference to the diagram).



- 3) Connect the power, insert one end of the power line into the oxygen concentrator's power socket; insert the other end of power line into an indoor power socket, and turn on the power switch.

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COXTOD

## **Series AM**

**oxygen concentrator for Medical use**

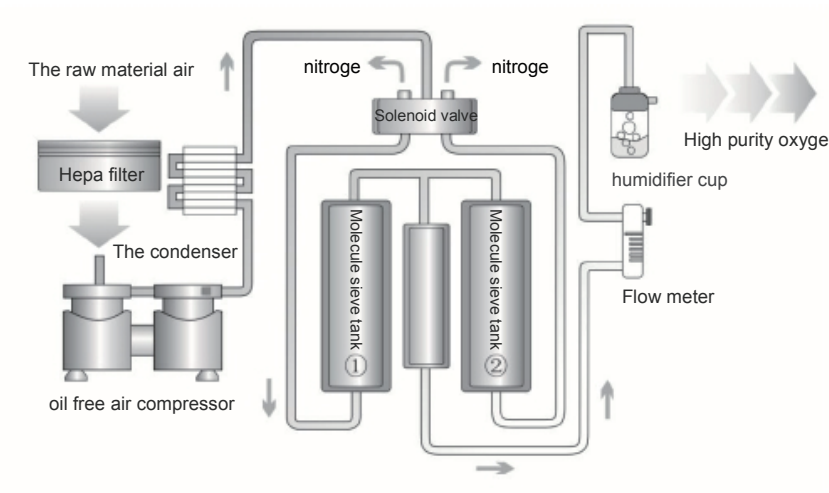
**Instruction for use**

## **Series AM**

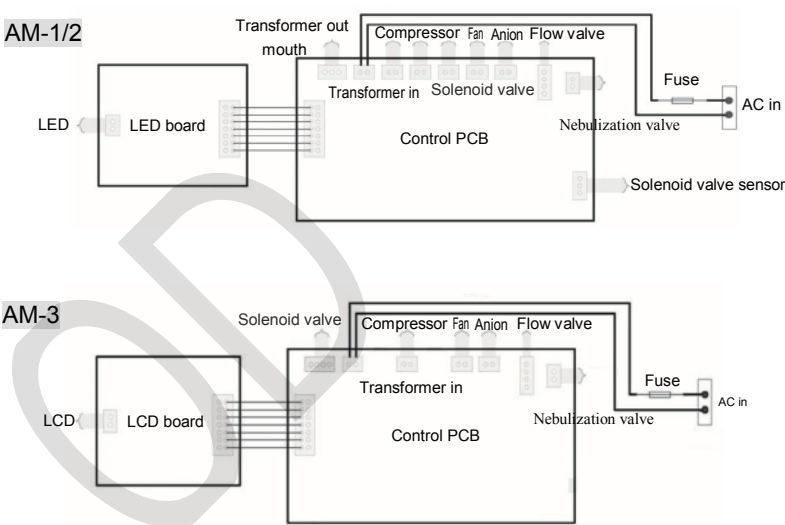
**oxygen concentrator for Medical use**

**Instruction for use**

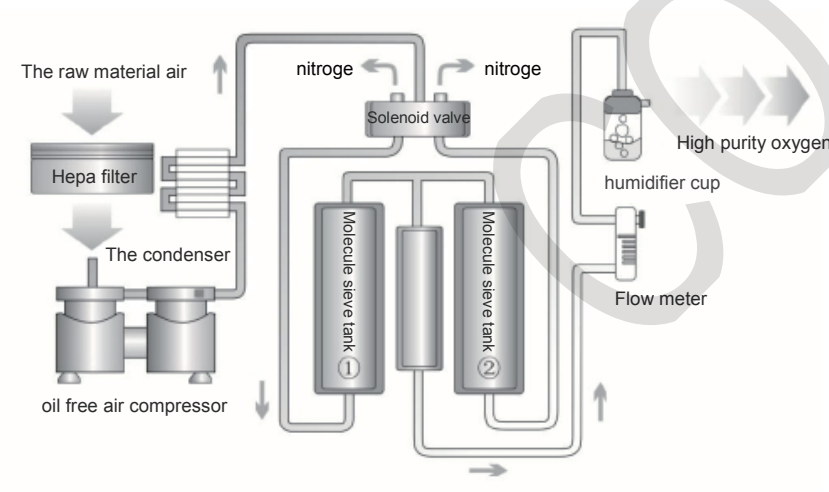
Oxygen concentrator principle diagram



Oxygen concentrator electric circuit diagram



Oxygen concentrator principle diagram



Oxygen concentrator electric circuit diagram

