

USER MANUAL FOR HIGH PRESSURE

OXYGEN GENERATOR



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Foreword

Thank you for purchasing our products, hoping you will be satisfied with our products. This operation manual contains function, operation steps, attention, basic trouble solution and so on. To ensure your efficient use of the machine, please have a close read of this operation manual before operating it.

*** Caution**

1. Please check the power (voltage and frequency), adjust needed outlet pressure before use the machine.
2. When use oxygen generator, should pay special attention to reduce fire hazards, in safety, all combustibles should be far away from oxygen generator
3. Oil, grease or some material under the pressure when meeting oxygen will easily fire naturally, and these substances must stay away from oxygen generator, oxygen tube and other oxygen parts. Please don't use any lubricant. unless Longfian Scitech Co., Ltd written recommendation,
4. In order to achieve optimal performance of the oxygen generator, it is strictly prohibited to switch on or off the machine frequently in short time, which can reduce the life of the machine.
5. Keep Oxygen generator away from the wall, furniture and similar objects at least 20 cm.
6. Don't touch oxygen generator with wet hand.
7. Cut off the power plug, when not using the oxygen generator.

*** Safety Instruction**

1. Oxygen generator should be kept far away from open fire and fire origin
2. When checking and maintenance, please pull off the power plug in order not to be electric shock.
3. When using the machine, it was not allowed to open the panel freely. If there is quality problem or unusual alarm, customer should contact with dealer and producer. But forbidden to open and maintain by themselves.

*** Attention**

1. Oxygen generator should be kept in well-ventilated space to avoid the pollution.
2. When using oxygen generator, the bottom should be guaranteed in good ventilation, otherwise it will cause machine overheating.
3. Oxygen generator may have the exhaust noise intervals.
4. From turn on to setting time less then 10 mins.

5. When oxygen concentration display (OCSI) show unnormal, user should state dealer for Maintenance.

6. What oxygen generator need to clean is the filter net and the filter which needs to change regularly;

7. Clean requirement is as following chart:

7.1 JAY-10-4.0. JAY-20-4.0 Model

Part name	Cleaning cycle	Cleaning method	Remark
First air filter	Working 100 hours	Clean water to flush	Black mesh
Second air filter	Working 600 hours	replaced (replaced for the first piece every time)	Air filter
Third air filter	Working 3000 hours	Replaced for filter	Air filter
Fourth air filter	Working 5000 hours	Replaced for mid filter	Bacterial filter

7.2 JAY-15-4.0 Model

Part name	Cleaning cycle	Cleaning method	Remark
First air filter	Working 100 hours	Clean water to flush	Black mesh
Second air filter	Working 3000 hours	replaced	Paper material
Third air filter	Working 5000 hours	Replaced for mid filter	Paper material
Fourth air filter	Working 5000 hours	Replaced for mid filter	Bacterial filter

8. When concentration less than $84\% \pm 2\% (V/V)$, alarm LED is shown, turn off the machine immediately, and check the fault.

9. The machine can't frequently start and stop: Interval time between turning off and next turning on should not be less than 5 minutes (In order to prolong the service life of air compressor).

10. Before turning on the power flow regulating valve must be open.

11. This machine is strictly prohibited to touch oil, grease and lubricant.

12. Graphics, abbreviated description:

AC: power; VA: Watt : see user manual; : Warning : Ground connection



: Electric safety B type;



: Manufacturing date;



: Manufacturing address;

*** Product Introduction**

1、 General principle

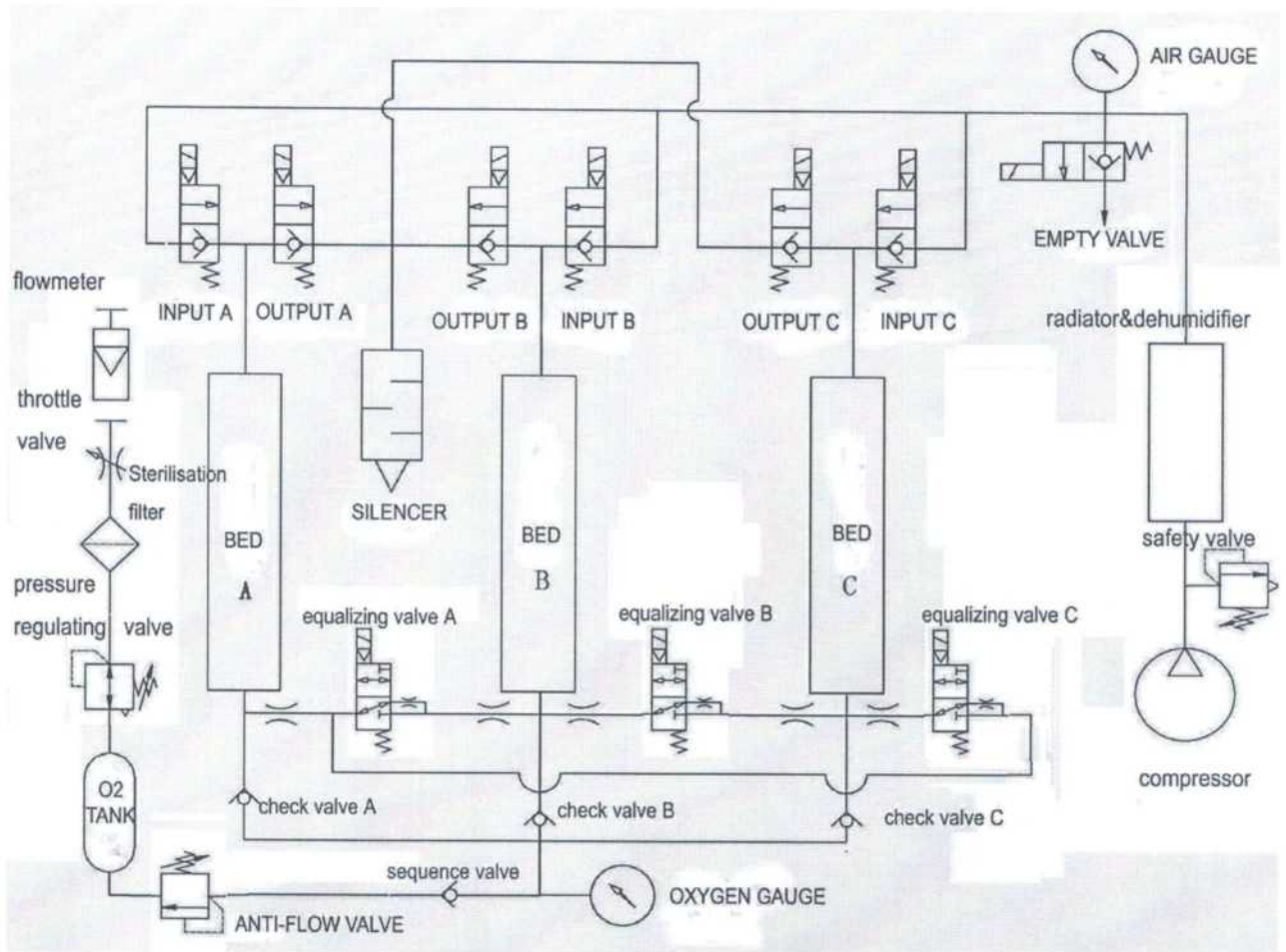
The oxygen generator adopt Pressure Swing Adsorption(PSA)principle, which can separate oxygen, nitrogen and other gas from the air, at constant temperature, as soon as power is connected, the oxygen that meets medical standards can be separated from air constantly. Oxygen is generated by pure physical method, with steady, safe and reliable oxygen flow, low cost, and adjustable flowrate and outlet pressure. There is no influence on indoor oxygen percentage during the concentrator operating.

2、 General Compose

Oxygen generator is made up of main unit that include adopt oil-free air compressor dynamic system、 filtering, cooling and dehumidifiers system (JAY-10-4.0Model adopt rotary automatic dehydrator;JAY-15-4.0 、 JAY-20-4.0 Model adopt cooling drying device), Adsorption air separation system, the control valve (inlet valve, exhaust valve, equalizing valve, emptying valve, drain valve) and the electric control system and the oxygen concentration monitoring system composition, and the outer plate surface spray processing.

3、 Working Principle

Oil-free air compressor power system to produce pressure about 0.43 MPa compressed air, through condenser make the temperature lower then by rotary automatic dehydrator or freeze drying machine removing the moist from compressed air, through control valve supply oxygen gas to three adsorption separately to be 0.40Mpa concentration higher 90% oxygen according to control program requirements.



* Operating condition (Include oxygen purity indicator OCSI)

1. Environment temperature: 5°C-40°C
2. Relative humidity: 30%-75%
3. Atmosphere pressure: 700hPa-1060hPa
4. The surrounding environment no corrosive gas and strong magnetic field.

* Scope of Application

1. Product is suitable for aerobic crowd, suitable for chronic obstructive pulmonary disease, cardiovascular disease and other oxygen therapy patients.
2. Product can supply oxygen to ventilator and anesthesia machine.

*** Technical parameter**

Model	JAY-10-4.0	JAY-15-4.0	JAY-20-4.0
Rated power (VA)	850	1500	1800
Operation voltage (V/Hz)	AC220V±22V 50Hz±1Hz	AC220V±22V 50Hz±1Hz	AC220V±22V 50Hz±1Hz
Oxygen Flow (L/min)	0~10	0~15	0~20
Oxygen concentration (V/V)	93%±3%	93%±3%	93%±3%
Outlet pressure MPa	0.14-0.40	0.14-0.40	0.14-0.40
Temperature alarm	≥80℃ alarm	≥80℃ alarm	≥80℃ alarm
Alarm(Optional)	Low purity High&low pressure	Low purity High&low pressure	Low purity High&low pressure
Sound level(dB)	≤55	≤60	≤60
Electrical category	Class I Type B	Class I Type B	Class I Type B
Product category	ClassII Type a	ClassII Type a	ClassII Type a
Dehumidifier	Automatic Dehumidifier	Refrigerated air Dryer	Refrigerated air Dryer
Net weight (Kg)	65	118	125
Dimension (mm)	850*420*600	850*590*660	850*660*660
Low purity alarm	When oxygen purity is ≥ 84%, the blue lamp is on, when oxygen purity is below 84% ,red lamp is on, indicating low purity. (Accuracy±2%)	When oxygen purity is ≥ 84%, the blue lamp is on, when oxygen purity is below 84% ,red lamp is on, indicating low purity. (Accuracy±2%)	When oxygen purity is ≥ 84%, the blue lamp is on, when oxygen purity is below 84% ,red lamp is on, indicating low purity. (Accuracy±2%)
Relief valve pressure	0.5MPa	0.5MPa	0.5MPa

* Name and function

JAY-10-4.0、JAY-15-4.0、JAY-20-4.0 model oxygen generator construction

1、General appearance of oxygen generator



JAY-10-4.0



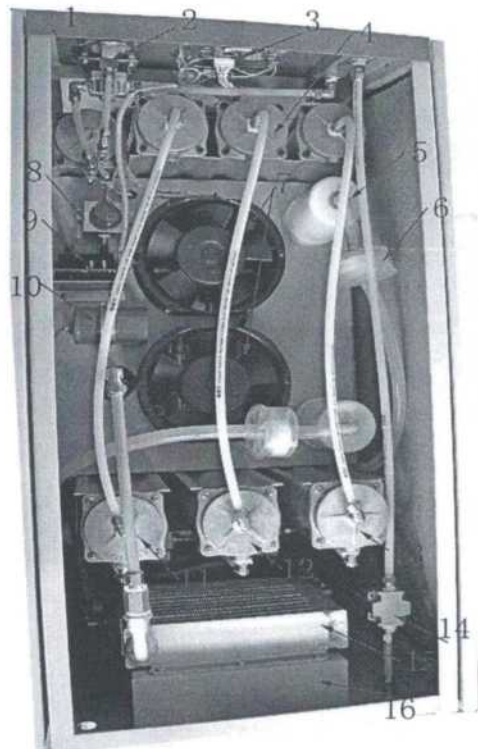
JAY-15-4.0/JAY-20-4.0

See as above picture, oxygen generator is mainly composed by main unit case, front panel, front plate, back panel, head cover, left side door, right side door, trundles.

2、Top view of Oxygen generator

2.1 JAY-10-4.0

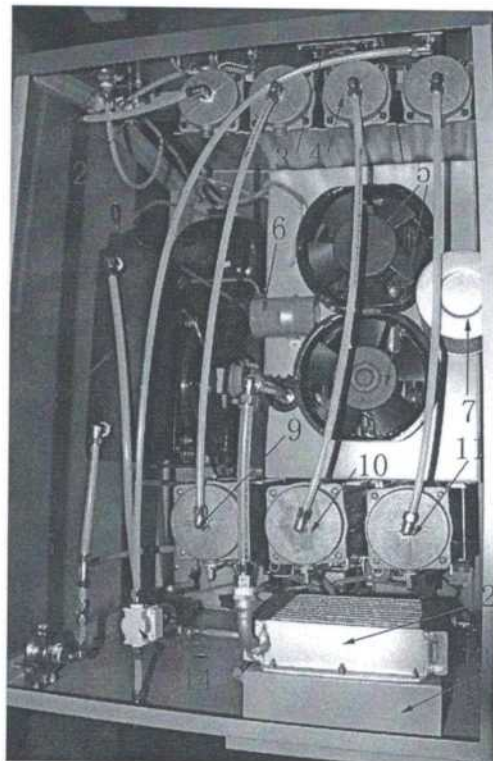
- 1) Output regulator valve
- 2) Oxygen pressure gauge
- 3) LCD display
- 4) Oxygen tank
- 5) Third air filter
- 6) Second air filter
- 7) Cooling fan (compressor cooling)
- 8) Reducing valve (For oxygen sensor)
- 9) Oxygen sensor
- 10) Electric condenser
- 11) A adsorption
- 12) B adsorption
- 13) C adsorption
- 14) Fourth air filter
- 15) Cooler
- 16) Cooling fan (cooler cooling use)



JAY-10-4.0

2.2 JAY-15-4.0

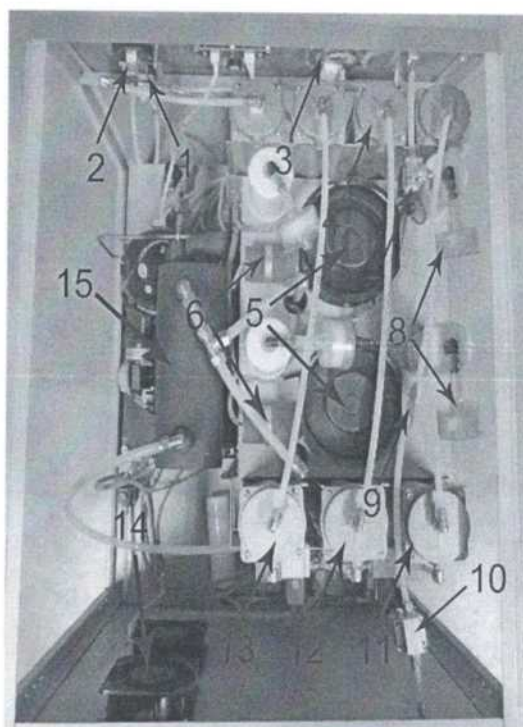
- 1) Output regulator valve
- 2) Oxygen pressure gauge
- 3) LCD display
- 4) Oxygen tank
- 5) Cooling fan (compressor cooling)
- 6) Electric condenser
- 7) Second air filter
- 8) Refrigerated air Dryer
- 9) A adsorption
- 10) B adsorption
- 11) C adsorption
- 12) Cooler
- 13) Cooling fan (cooler cooling use)
- 14) Fourth air filter
- 15) pressure gauge (compressed air pressure)



JAY-15-4.0

2.3 JAY-20-4.0

- 1) Output regulator valve
- 2) Oxygen pressure gauge
- 3) LCD display
- 4) Oxygen tank
- 5) Cooling fan (compressor cooling)
- 6) Electric condenser
- 7) Two position three way electromagnetic valve
- 8) Second air filter
- 9) Single way valve
- 10) Fourth air filter
- 11) C adsorption
- 12) B adsorption
- 13) A adsorption
- 14) Fan
- 15) Refrigerated air Dryer



JAY-20-4.0

3、Oxygen generator positive side view

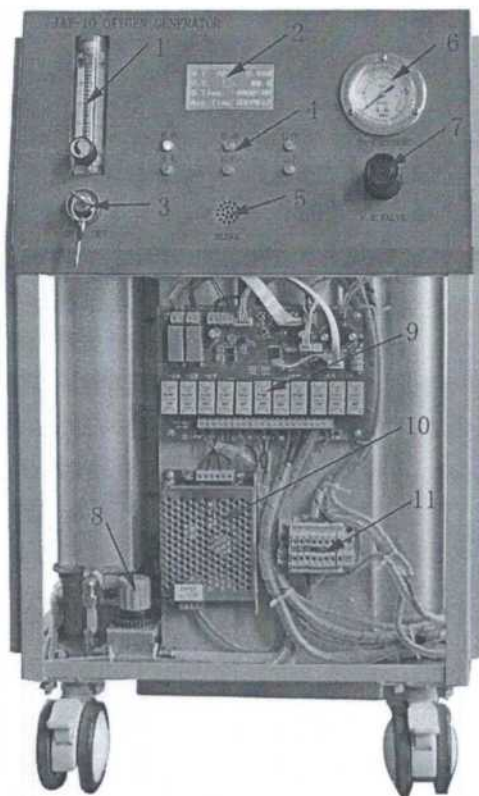
3.1 JAY-10-4.0

- 1) Flowmeter
- 2) LCD display (display operation parameters)
- 3) Power (Turn to left ,Power on)
- 4) LED display

(Machine works and alarms in different color LED light on indicating relevant situation)

Audio alarm: When machine works unnormally, relevant audio alarm will be heard .

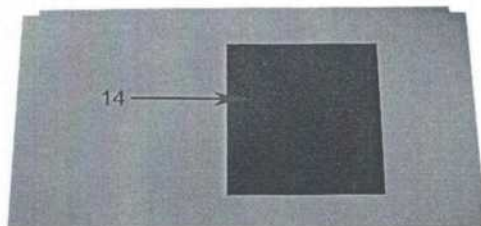
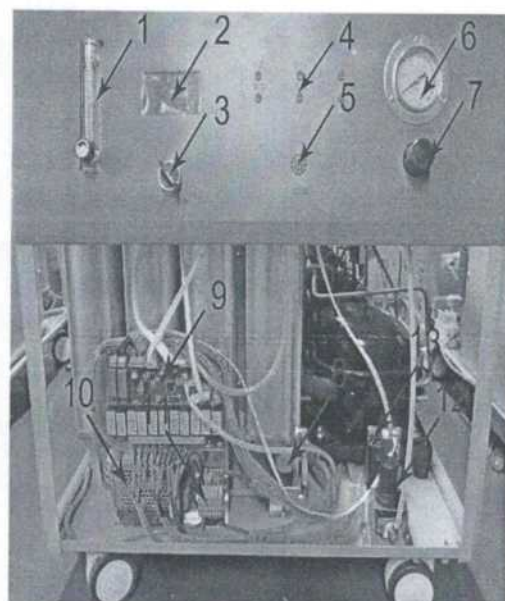
- 6) Oxygen pressure gauge
- 7) Pressure Regulator valve
- 8) Sequence valve
- 9) Main control board
- 10) Power
- 11) Line bank



JAY-10-4.0

3.2 JAY-15-4.0/JAY-20-4.0

- 1) Flowmeter
 - 2) LCD display: (display operation parameters)
 - 3) Power: (Turn to left ,Power on)
 - 4) LED light indicator:
- (Machine works and alarms in different color LED light on indicating relevant situation)
- 5) Audio alarm: When machine works abnormally, relevant audio alarm will be heard .
 - 6) Oxygen pressure gauge
 - 7) Pressure Regulator valve
 - 8) Sequence valve
 - 9) Main control board
 - 10) Power
 - 11) Line bank
 - 12) Oxygen sensor
 - 13) Reducing valve (oxygen sensor use)
 - 14) First air filter

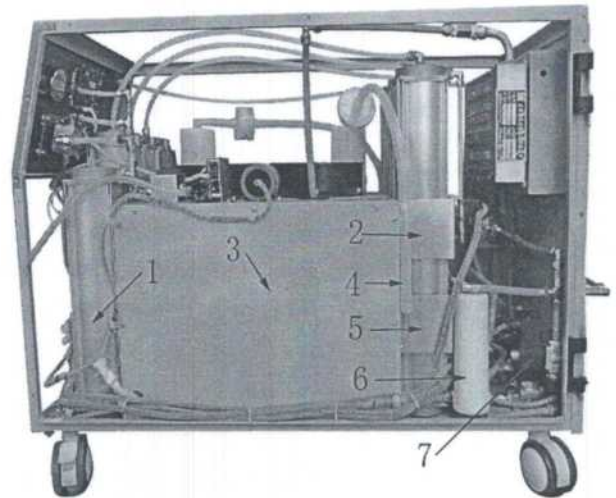


JAY-15-4.0/JAY-20-4.0

4. Right side view of oxygen generator

4.1 JAY-10-4.0

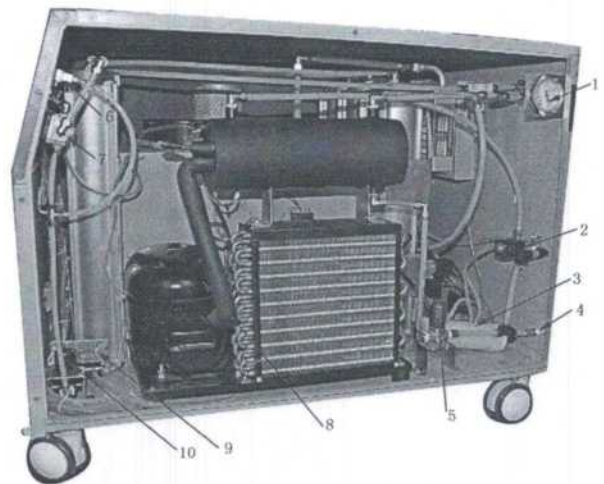
- 1) Oxygen tank
- 2) Equalizing electromagnetic valve and holder
- 3) Rubber tank (compressor)
- 4) Inlet tube (compressor inlet)
- 5) Intake Solenoid valve and holder
- 6) Exhaust silencer
- 7) Empty valve



JAY-10-4.0

4.2 JAY-15-4.0

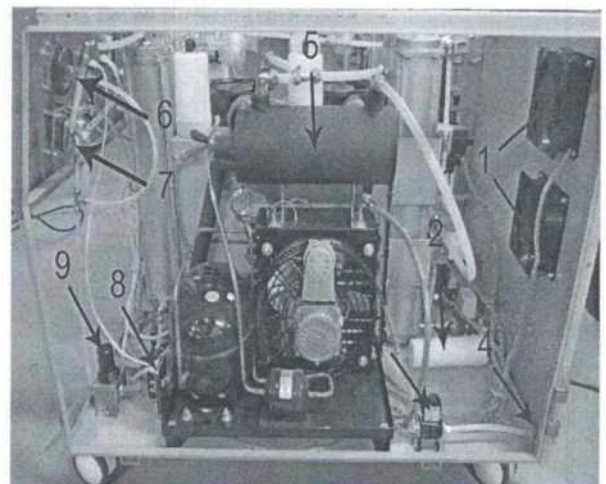
- 1) Pressure gauge (compressed air)
- 2) Empty valve
- 3) Exhaust silencer
- 4) Drainage outlet
- 5) Drain valve
- 6) Pressure gauge (oxygen)
- 7) Pressure regulating valve
- 8) Refrigerated air Dryer
- 9) Oxygen sensor
- 10) Reducing valve(for oxygen sensor)



JAY-15-4.0

4.3 JAY-20-4.0

- 1) Fan
- 2) Exhaust silencer
- 3) Drain valve
- 4) Drainage outlet
- 5) Refrigerated air Dryer
- 6) Pressure gauge (oxygen)
- 7) Pressure regulating valve
- 8) Oxygen sensor
- 9) Reducing valve(for oxygen sensor)

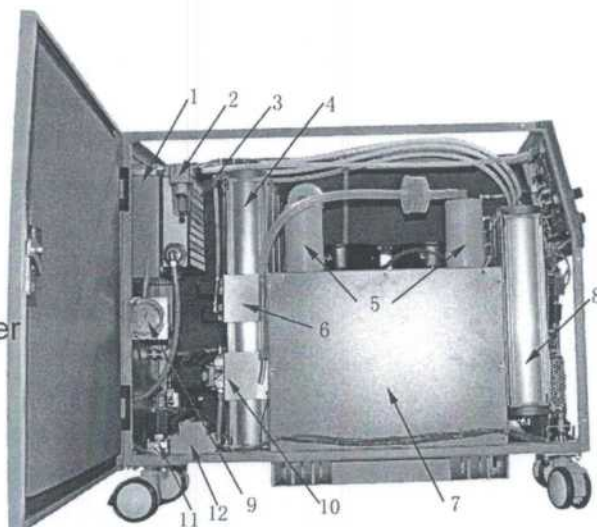


JAY-20-4.0

5、 Left side view of oxygen generator

5.1 JAY-10-4.0

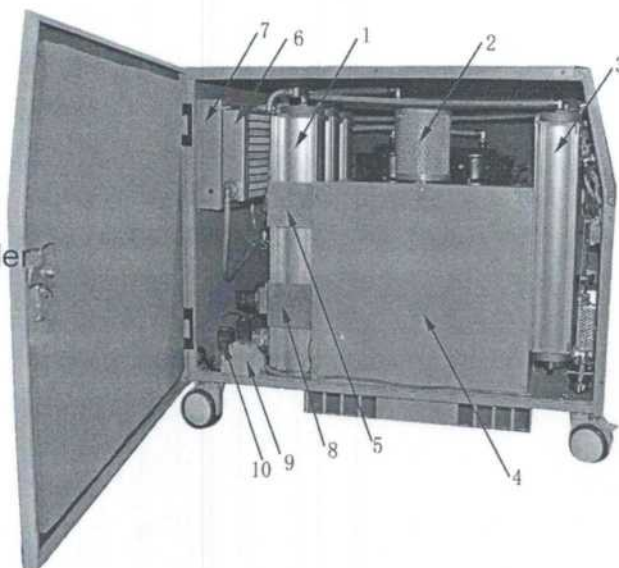
- 1) Axial flow air dryer (for radiator)
- 2) Fourth air filter
- 3) Radiator
- 4) Adsorption
- 5) Third air filter
- 6) Equalizing electromagnetic valve and holder
- 7) Rubber tank (compressor)
- 8) Oxygen tank
- 9) Pressure gauge (compressed air)
- 10) Intake Solenoid valve and holder
- 11) Exhaust Solenoid valve and holder
- 12) Breaker



JAY-10-4.0

5.2 JAY-15-4.0

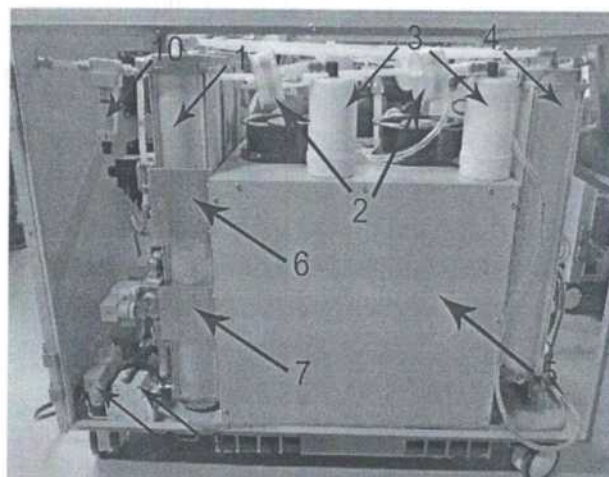
- 1) Adsorption
- 2) Second air filter
- 3) Oxygen tank
- 4) Rubber tank (compressor)
- 5) Equalizing electromagnetic valve and holder
- 6) Radiator
- 7) Axial flow air dryer (for radiator)
- 8) Intake Solenoid valve and holder
- 9) Breaker
- 10) Exhaust Solenoid valve and holder



JAY-15-4.0

5.3 JAY-20-4.0

- 1) Adsorption
- 2) Second air filter
- 3) Third air filter
- 4) Oxygen tank
- 5) Rubber tank (compressor)
- 6) Equalizing electromagnetic valve and holder
- 7) Intake Solenoid valve and holder
- 8) Breaker
- 9) Exhaust Solenoid valve and holder
- 10) Fourth air filter



JAY-20-4.0

6、Back side view of oxygen generator

6.1 JAY-10-4.0

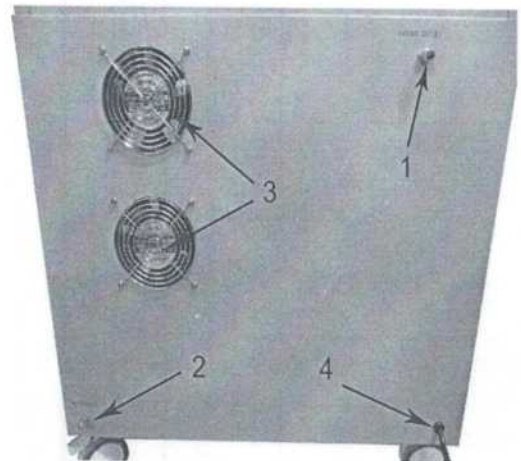
- 1) Oxygen outlet
- 2) First air filter
- 3) Automatic dehydrator
- 4) Drain valve
- 5) Power cord



JAY-10-4.0

6.2 JAY-15-4.0/JAY-20-4.0

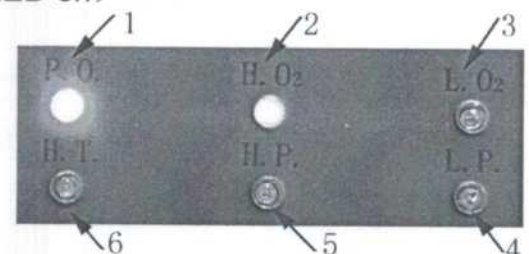
- 1) Oxygen outlet
- 2) Waterspout
- 3) Fan
- 4) Power cord



JAY-15-4.0/JAY-20-4.0

7、LED indicating light

- 1) P.O.:Power On, Green LED on
- 2) H.O₂:High oxygen concentration light ($\geq 84\%$, Blue LED on)
- 3) L.O₂:Low oxygen concentration light ($< 84\%$, Red LED on)
- 4) L.P.: Low Pressure indicate light
(oxygen pressure $\leq 0.25\text{MPa}$, yellow LED light on)
- 5) H.P.: High pressure light
(oxygen pressure $\geq 0.45\text{MPa}$, Red LED light on)
- 6) H.T.:High temp light on (Rubber tank temp $\geq 80^\circ\text{C}$, Red LED light on)



Remark: JAY-10-4.0 and JAY-15-4.0 Model:

H.O2:High oxygen concentration light ($\geq 84\%$, Blue LED on)

L.O2:Low oxygen concentration light ($< 84\%$, Red LED on)

8、LCD screen:

8.1 After turning on the machine, LCD display on, follow information will be shown :

O . P . MPa : 0 . 0 0 0

O . T . $^{\circ}\text{C}$: 0 0 . 0

O . T i m e : 0 0 0 0 : 0 0

A c c . T i m e : 0 0 0 0 0 0 0

O.P. MPa: 0.376

O.T. $^{\circ}\text{C}$: 30.5

O.Time : 0000 06

Acc.Time: 00000000

O.P.: oxygen output pressure(normal scope: 0.35MPa~ 0.43MPa)。

O.T.: case temp of compressor (normal scope: $\leq 80^{\circ}\text{C}$)。

O.Time: Operating time (hour: minute)

Acc.Time: Accumulative operating time (hour)

8.2 Adjustment interface I, When pressing selected button once, following display will be entered

T1: 0.00 ← T2: 0.00

T3: 0.00 T4: 0.00

T5: 0.00 T6: 0.00

T7: 0.00 T8: 0.00

8.3 Adjustment of interface II, When pressing selected button nine times, follow display will be entered

T9: 0.00 ←

T10: 0.00

T11: 0.00

T12: 0.00

F:000

T1~T12: The setting time for inlet、exhaust、Equalizing solenoid valve which works unit: second。

F: The setting interval time for drain valve starting (Factory set to start for 10 seconds in every 60 minutes; user should set it according to actual environment. In high humidity season this valve open in shorter interval properly; conversely, it will open in long interval time), unit: minute

* Operation steps

- 1、Let oxygen generator power cord plugs access mains.
- 2、Turn on circuit breaker switch of the oxygen generator, and green LED indicator, LCD screen, red LED indicator for low oxygen will be on.
- 3、Open the knob of flow meter.
- 4、Turn knob left to "ON", oxygen generator began to work.
- 5、After the system is on and empty valve start for 10 seconds which guarantee the compressor start (the valve for normally open valve)
- 6、Oxygen generator's outlet pressure after 60 seconds: JAY-10-4.0、JAY-15-4.0、JAY-20-4.0 above 0.35Mpa.
- 7、after 3 minutes of operation, flow meter should be adjusted to required flow. but not greater than the standard flow value. Oxygen output pressure can be adjusted by the pressure regulating valve, but not more than the rated pressure value(when ≥ 0.45 MPa will stop).
- 8、Oxygen purity should be above 90% after operating 10 minutes.
- 9、If not continuously be used, please shut off the power (disconnect oxygen generator in circuit breaker switch) and unplugged.
- 10、Oxygen purity alarm function: after ten minutes it will reach the normal.
When oxygen purity $< 84\%$, error $\pm 2\%$, "L.O2" red LED light, show low oxygen purity.
When oxygen purity $\geq 84\%$, error $\pm 2\%$, "H.O2" blue LED light.
- 11、If starting fifteen minutes and the low oxygen concentration light "L.O2" still red, the system operation is unnormal.

Now check if position of the pressure reducing valve for oxygen sensors is normal, because too much flow in the oxygen sensor can make output purity of oxygen

generator insufficient. By adjusting the pressure reducing valve (oxygen sensor with) make its flow meet the requirements, or close concentration light of the valve also can't make blue LED light,: the oxygen sensor should be checked for adjustment with pressure reducing valve, with reference to the 《maintenance instructions》 in item six .

12、 Drain valve starts for 5 seconds according to interval setting time (note: discharge of water should be properly handled, such as drainage or container collection).

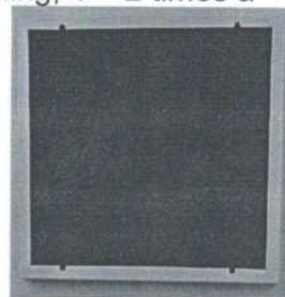
13、 when Turning off (rotary switch to "OFF"), axial fan, and cooling drying device stop work. after 60 seconds

* Maintenance instructions

1、 Please cut off the power supply, the external casing use clean soft wet towel touches a few cleaner, wipe external casing everywhere, then dry towel cleaning, 1 ~ 2 times a month.

2、 Clean primary filter is an important step of the daily maintenance (see cleaning requirements table)

Methods: the case should be cleaned with cleanser Thoroughly and then risen with dry cloth twice every month.

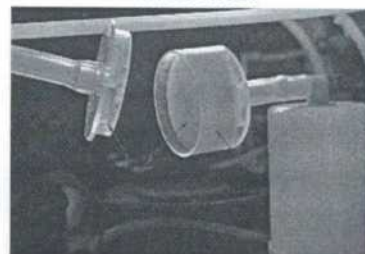


first filter

3、 Change second filter(see cleaning requirements table)

3.1 JAY-10-4.0、 JAY-20-4.0 Model (change filter cotton)

Open the oxygen generator side door, open the secondary filter remove filter cotton, the most outside a piece of change (figure 2), on the inside, make originally the second piece in the first place,and rotation use.



Second filter

3.2 JAY-15-4.0 model:

Open the oxygen generator side door and check if the secondary filter became black, if yes, change the new filter.



Second filter

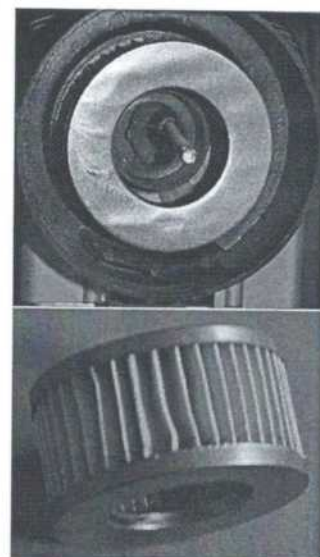
4、 Clean third inlet filter(see cleaning requirements table)

4.1 JAY-10-4.0、 JAY-20-4.0 Model (change the filter cotton):

Open the oxygen generator side door, Unplug the silicone rubber tube on the top of third filter, turn on the third filter and change the filter cotton. at the same time clean filter's cavity.



Third air filter



Third air filter



Fourth air filter

4.2 JAY-15-4.0 model (change filter element):

Open the oxygen generator left side door, upload compressor Internal case side board, unscrew the third filter fastening screw, open the black case, replace the internal filter core, and at the same time clean filter cavity.

5、 Replace fourth filter

Open the oxygen generator side door, In the panel near the oxygen outlet position, check the fourth filter's color, if color changed,unscrew filter and change the element.

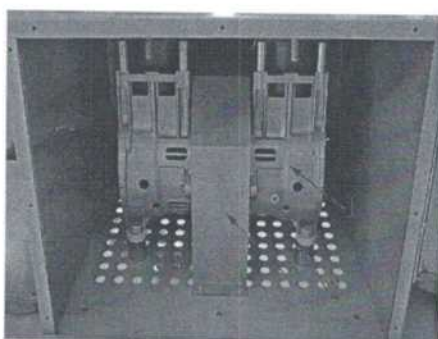
6、 Use reducing valve check oxygen sensor

Reducing valve is used to check whether oxygen purity is normal. otherwise ,Oxygen sensor is supplied more oxygen, it will lead to loss of pressure of the oxygen outlet, flow reducing, because too much oxygen to oxygen sensor will reducing the purity and pressure of the outlet. The best way to check how much amount of Oxygen to the oxygen sensor is to connect a tube to the oxygen sensor output and put this tube to the water (as shown in picture) and if one bubble will appear in the water every a second, it will be OK. If more continuous bubbles appears, the reducing valve should be adjusted to its best condition

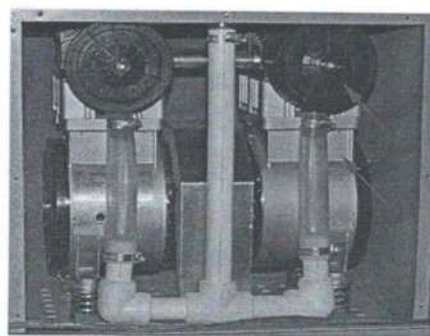


7、 Compressor

Compressor positioning is made of a positioning screw, damping spring and stator composition. It can show clear positioning screw and bottom friction sound when happened offset, external forces need to put to compressor in the right position. Compressor need maintain every year, blowing the dust on the surface and check wiring.

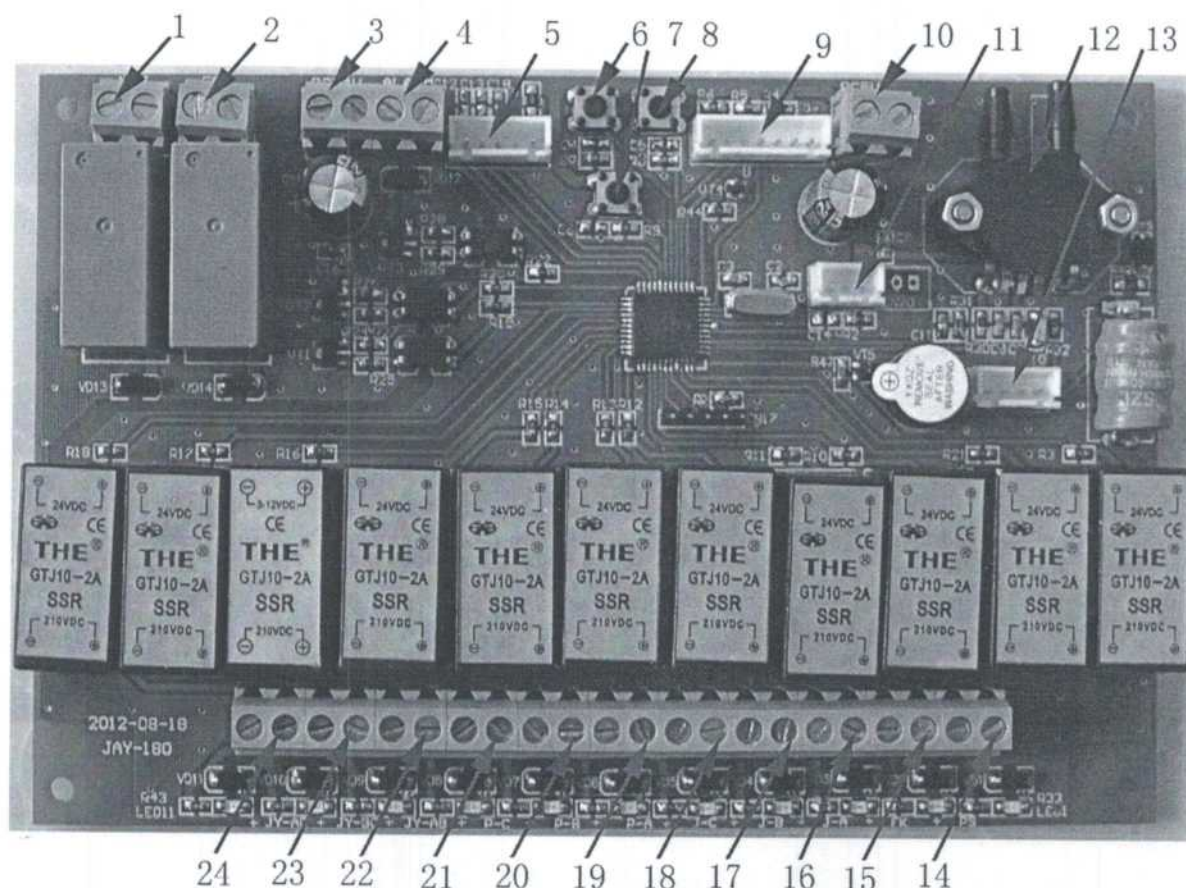


JAY-10-4.0、JAY-20-4.0



JAY-15-4.0

8、Control board

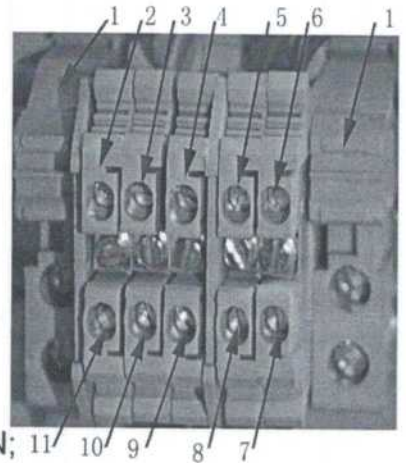


1) Axial & Refrigerated air dryer control; 2) Compressor control; 3) DC24V input; 4) horn connector; 5) LED lamp connector; 6) Down adjusting button 7) select button; 8) Up adjusting button; 9) LCD display connector; 10) DC5V input connector; 11) temperature sensor connector; 12) pressure sensor; 13) Turn on/off and power off alarm connector; 14) drain valve connector; 15) atmospheric valve connector; 16) A tower intake valve connector; 17) B tower intake valve connector; 18) C tower intake valve connector; 19) A tower vent valve connector; 20) B tower vent valve connector; 21) C tower vent valve connector; 22) AB tower equalizing valve connector; 23) BC tower equalizing valve connector; 24) AC tower equalizing valve connector.

Every three months check the fastness for binding post, use screwdriver twist screw for fixing line, should no loose, every year should complete maintenance, blowing the dust on the surface and check the wiring.

9、 Binding post

- 1) locating plate;
- 2) Axial flow fan, air dryer AC220V-N;
- 3) axial flow fan, dryer AC220V-N;
- 4) Axial flow fan, air dryer AC220V-N;
- 5) axial flow fan, dryer AC220V-L, connect relay part;
- 6) compressor AC220V-L, connect relay part;
- 7) AC/DC switch power connect electric supply AC220V-L;
- 8) Connect electric supply AC220V-L;
- 9) Compressor connect electric supply AC220V-N;
- 10) AC/DC switch power connect electric supply AC220V-N;
- 11) Connect electric supply AC220V-N;



10、 If users need circuit diagram, components list, diagram note, correction rules and maintenance material, manufacturers will provide necessary drawing material.

* Troubles and solutions

No.	Trouble	Causes	Solution
1	No operation after power connected	1.No connection between circuit of oxygen generator and power 2.Capacitor of compressor broken 3.Compressor broken 4.Switch connection problem	1.Check out whether switch, plug, power line in good connection. 2.Replace start capacitor 3.Change compressor 4.Check switch connection line
2	No oxygen out or tiny outtake flow	1.Change of Relief valve setting pressure 2.Filter clogging, air inlet difficult 3.Connection pipeline no screw, air leakage 4.Too much leakage rate of reducing valve for oxygen sensor 5.No working of solenoid valve	1.Replace and adjust relief valve 2.Clean filter 3.Check pipeline 4.Check and adjust reducing valve for one bubble every second 5.Check solenoid valve and replace
3	No exhaust sound	1. Air control valve can not work 2. Electrical control board cannot work	1.Change air control valve 2.Change electrical control board
4	Too noisy exhaustion	1.The joint of exhaustion muffler fallen off 2. Exhaustion muffler broken	1.Connect the joint well 2. Have the muffler replaced
5	Too noisy shake	1.Compressor fixing position offset 2.Compressor positioning column deformation	1.Move compressor in the fixed position 2. Reshaping positioning screw or replacement
6	Oxygen purity alarm light	1.Oxygen purity below 84%	1.Check compressor air system 2.Check oxygen sensor 3.Check and adjust pressure reducing valve if have no air outlet 3.Air leakage for oxygen generator
7	High/low pressure alarm	1.Pressure regulating valve offset 2.Incorrect flow meter outlet 3.Pipeline air leakage	1.Check and adjust pressure regulating valve 2.Adjust and replace flow meter 3.Check fastening pipeline
8	No light for LCD backlight	1.Backlight damage 2.Backlight burn out because of the fault alarm	1. Replace LCD 2. Reconnect with main power supply and restart the machine, backlight will light

* Condition for transportation and storage

Environment temperature scale: -40℃-55℃

Comparative humidity scale: ≤95%

Air pressure scale: 700hpa-1060hpa

* Accompany spare parts

1、 Air filter net 1 unit

2、 Nylon tube 10*8*1 meter、 8*6*1 meter、 6*4*1 meter

* Quality Warrant

The whole machine repair: one year guarantee.

After-sale service: **Longfian Scitech Co., Ltd.**

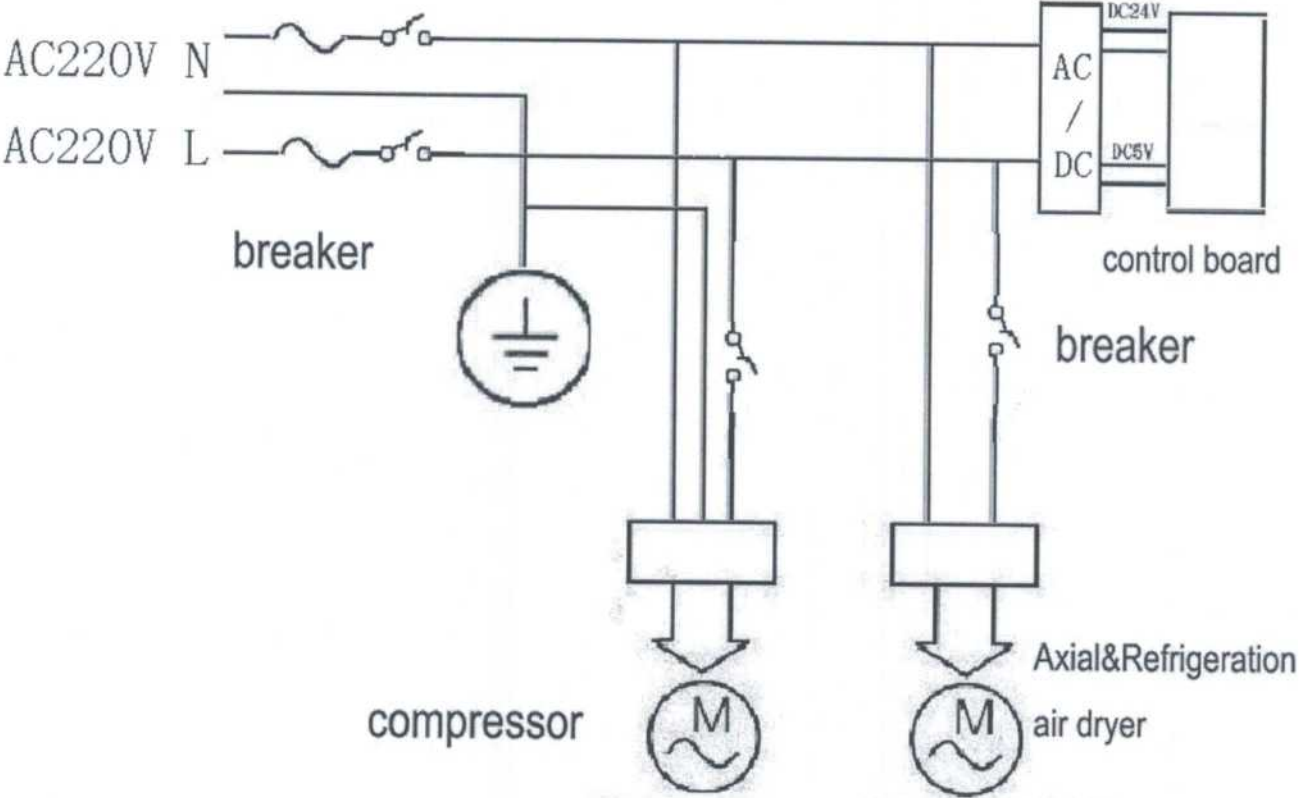
Add: 2F&3F, East Section, Building 12, Power valley pioneer park,
NO.369 Huiyang street , 071051,Baoding,Hebei Province, China

Postcode: 071051

Service phone: 0086-312-5909505

Fax: 0086-312-5909515

Appendix I: Oxygen generator connection diagram



Appendix II: Oxygen generator control board connection diagram

