

OXYGEN CONCENTRATORS

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MEDICAL EQUIPMENTS

OXYGEN CONCENTRATORS

Quality System Standard applied: **ISO 9001-2000**

Product Standard applied: **ISO 13485**

CE 0197 marked Product.

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COMPANY

The Company is a Hi-Tech share-issuing enterprise, which specialized in the invention and manufacture of oxygen concentrators and family physiotherapy products.

The company is registered in People republic of China. It is a “High-tech Enterprise”. The company developed and produced the first set of the small typed molecular sieved oxygen concentrator in 1992. The company occupies more than 4000 square meters production area; the present production output can be 25,000 units per year.

Depends on the technology and strict management, the company has been the first top enterprise to produce medium and small-typed medical oxygen concentrators in China. The company tries its best to provide high quality products and satisfied service to all customers. At present, we have several series medical healthy oxygen concentrators such as FY series etc...

The company enjoys high reputation in the world market because of its safety, durability and reliability. In July 2003, the company obtained the ISO9001:2000 certificate of medical devices quality management system, and the ISO 13485 (YY /T0287) certificate of product quality. And in June 2004 the company obtained the CE 0197 certificate and got the permit to the Europe market. The oxygen concentrator, which is developed by our company independently, has been applied widely in the hospitals at all different places. It can also used in levels, clinics, health centres, health institutes, medical stations and other medical establishments, family nursing, health care, mental workers and students, etc. The products have wide application in water treatment, ozone and environment protection industries. The products’ good quality and good service has been accepted and praised by more and more customers.

The product gains the wide market both at home and in aboard by the good quality and the reputation. After we award of the contract in the women and children program of United Nation Children’s Fund for the first time in 1996, we renew our record constantly. In 2006, the company gain the bidding for 4000 sets machines in the program of assistance of Cuba in the fierce competition. It’s the biggest bidding record in the Chinese market by now.

The oxygen machine has already been sold all over the country, and had sales and service agency in several regions in China. We also export the machine to several countries and regions. The Company would like to cooperate and develop with the companies and clients both in China and at abroad with the principle “earnest and sincere cooperation, with mutual benefit”.

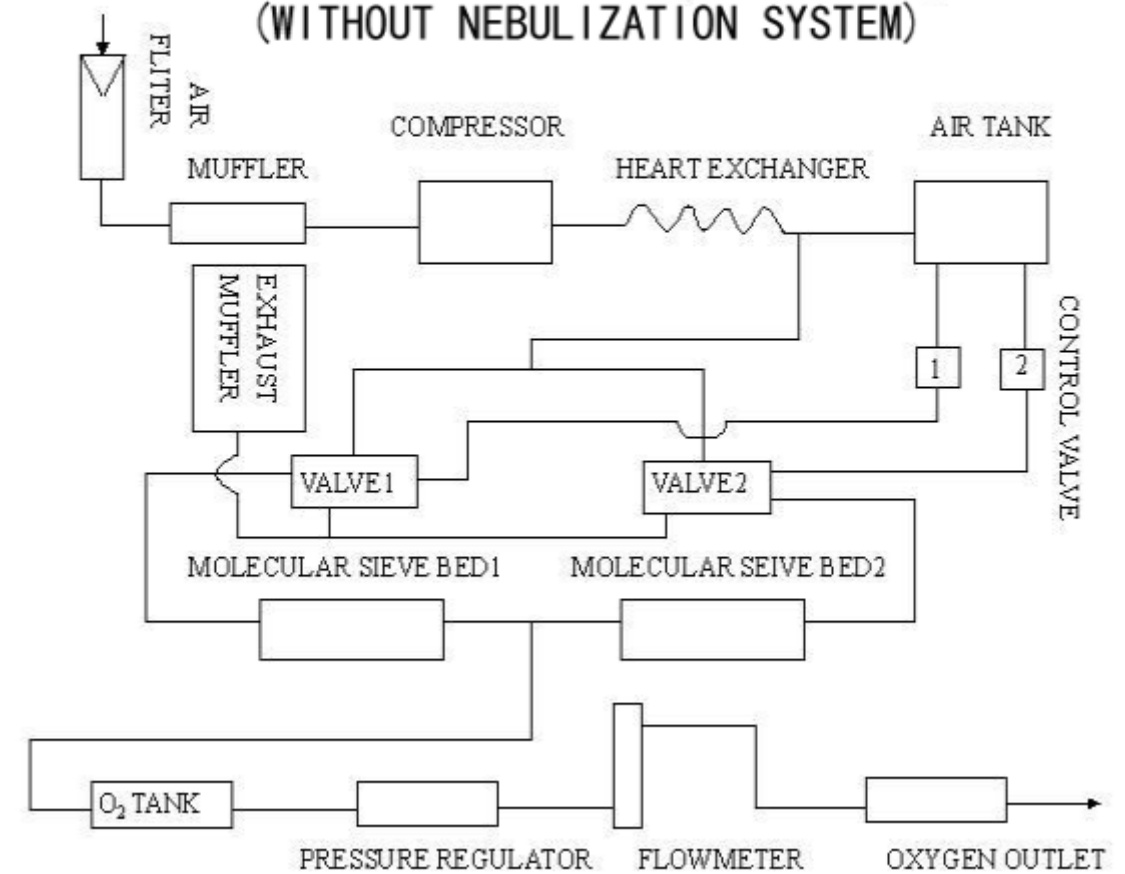
“Innovation is the soul of development; Satisfaction is the base of quality”. With this conception, we will make unremitting effort for human’s living quality and improvement healthiness. And make contribution to the society.

Principle

The medical healthy oxygen concentrator adopts molecular sieve beds with pressure swing adsorption (PSA) technology. Atmospheric air is entrained by the concentrator, filtered and raised pressure by a compressor. The compressed air is then introduced into one of the canisters containing zeolite granules where nitrogen is selectively absorbed leaving the residual oxygen available for patient use. After about 20 seconds the supply of compressed air is automatically diverted to the second canister where the process is repeated enabling the output of oxygen continues uninterrupted. While the pressure in the second canister is raised the pressure in the first canister is reduced to zero. This allows nitrogen to be released from the zeolite and returned into the atmosphere. The zeolite is then regenerated and ready for the next cycle. By alternating the pressure in the two canisters so that first one and then the other, a constant supply of oxygen is produced while the zeolite is continually being regenerated. Individual units have an output of up to five litres per minute with an oxygen concentration of up to 90%.

Schematic Diagram

FY SERIES OXYGEN CONCENTRATOR'S DIAGRAMMATIC SKETCH (WITHOUT NEBULIZATION SYSTEM)



Application

The oxygen concentrators adopt the compressor out of oil, which ensures the oxygen more health, high purity, no peculiar smell, no chemic element or any pungent element has been applied widely in hospitals, health centres, medical stations, beauty parlours and suits all kinds of family nursing and health care.

Warning: Following information is only for reference, if you want to use it for treatments please follow the doctor's advice

Application Scope of our Oxygen concentrator

- For Adjuvant Treatment

Diseases of respiratory system

Chronic emphasis pulmonary disease; Chronic bronchitis ; Bronchial asthma; Emphysema; Pneumoconiosis; Pneumonia-silicosis; Silicate pneumonia-silicosis; Anthracnose; Metallic pneumonia-silicosis; Pulmonary heart disease etc.

Altitude disease

Altitude pulmonary heart disease; Altitude cerebral oedema; Chronic altitude stress; High altitude heart disease etc...

Cerebra-vascular Diseases

Coronary heart disease; Hypertension ; Heart failure; Rheumatic heart disease; Cerebral haemorrhage; Cerebral ischemia; Angio-sclerosis senile diseases etc.

- For Health Care

The oxygen concentrator is a good assistant for gravid, brainworker, examinee, insomnia and addictive smokers and drinkers. It can also used for hairdressing method, which could be used in daily skin nursing or do aerobics in gymnasium.

- Ozone Generator Accessory

The oxygen concentrator could provide high purity oxygen (=90%) at scene. Accordingly, the outlet ozone concentration is double of that product from atmosphere source while the power cost will reduces to 1/2.

- Other use

The oxygen concentrator is used widely in the mineral water, drinking water fields which could be drunk directly; the foodstuff industry; drug industry; sewage dispose fields etc...

Application Scope of Ozone Generator

Application Scope	Function
Drinking Water	Tap water, bottler/barrel pure water, mineral drinking water, hometop water quality treatment
Medicine-making, medical treatment, foodstuff	Non- bacteria laboratory, packing material, working cloth, vessel raw material (flesh, fruit and vegetable) fresh keeping; sterilization of semi-product and finished product
Restaurant, hotel, mess hall	Kill remaining pesticide in vegetable, fresh keeping and antiseptis, in particularly for the unprocessed vegetable, Fresh keeping and antiseptis for fish and flesh, destroy antigen of hepatitis surface and others viruses; Cookers sterilization; Chairs, desks of the public business hall sterilization and environment sterilization;
Hotel & Hostel	Sterilization for the public business place and bedding;
Amusement Hall	Air purification, environment sterilization, water quality treatment of natatorium
Hairdressing & body mechanics	oxygen breathing hairdressing, skin sterilization, cleanness and women daily cleaning
Medical treatment	Air purification, clothes sterilization, environment sterilization, daily cleaning handing, surrounding deodorization sterilization, vessel sterilization, bacteria killing and waste water treatment in hospital
Chemical industries	Treatment for waste water and exhaust gas.
Aquatic product & poultry	Virus killing & sterilization, supply enough oxygen for water; Virus killing , deodorization and sterilization for poultry house; Increase living rate and output greatly, reduce diseases enormously, boost grown and removal effluvium
Polluted water treatment	Purify polluted water in metropolis

Characteristic

Accurate air separating system method:

Adopting the pressure adsorption system can make efficient compensation to the change of the oxygen quantity caused by voltage change and the parts worn out, so it can assure flow rate and purity. This is impossible by common time absorption system.

Credible electric control system:

(1)The adjustments of the switching point on circuit board that exploited and developed independently adopt figure circuit, thereby exact and credible.

(2)The pressure sensor made by Motorola Company used in pressure collecting, cooperating with the analyse and deal with of the circuit, which make the adapter acting exactly, thereby realize best air separating process.

(3)Adapt the air valve which has independent technique property right. It acts quick and exact, and air flow is good and can keep long time.

Particular separation parts assemble techniques:

The adsorption tank made by our company particular canned techniques has high efficiency, it has good coherence, good quality, thereby can assure the oxygen flow rate and purity of the machine.

Ideal machine design:

This appearance of machine is made of thick engineering plastic. It is firm and durable; it also has good shock absorption and noise reduction. The roll bearing fan doesn't need any lubricant and the machine has long life and low noise and low power consumption. The main parts are all produces by the supplier who have ISO9000:2000 or CE certification, thereby can assure the whole machine quality.

The compressor that matching with the system:

Considering the fact that the flow rate of the compressor will decrease with the increase of the working time and the worn out of the machine, at the same time, to avoid the sources waste caused by using the compressor of heavy flow rate, we choosing the compressor that matching with the system not only assure the oxygen outlet and purity, but also avoid power waste.

MEDICAL OXYGEN CONCENTRATORS

PORTABLE OXYGEN CONCENTRATOR



THE Portable concentrator is developed by our company. Adopt ZSY control system. It can economize 50% on energies than traditional work method.

It is compact and convenient; it can work in family power grids, Car power supply and the battery, so it can provide cure oxygen at any time and in any place. Light weight (4.5 kg)

Model	YAAO Portable
Rated Flux (L/min)	0.4
Oxygen Content (%)	≥90
Outlet Pressure (MPa)	0.04-0.06
Sound Level (db)	≤50
Voltage	DC 13V 14A
Battery power (Ah)	4
Weight (Kg)	4
Dimension (mm)	343×186×134

3L OXYGEN CONCENTRATOR (For family / Home use)



FY3D



FY3



FY3-I



FY3-II



FY3W

Model	Yaao3	FY3	FY3W	FY3-I	FY3-II
Rated Flux (L/min)	3				
Oxygen Content (%)	≥90				
Outlet Pressure (MPa)	0.04-0.06				
Voltage	AC 230V/220V/115V/110V				
Frequency	50Hz/60Hz				
Sound Level (db)	≤45	≤50			
Nebulization Rate(ml/min)	.....	.....	≥0.2	.....	.....
Input power (W)	380				
Weight (Kg)	26	23		21	23
Dimension (mm)	270×450×595	380×310×600		289×375×500	380×310×600
Optional Function	Remote Control; Adjustable Timer; Liquid Crystal Display Device; Multiple flow; Oxygen Display; High or Low pressure Display Device.				

4L OXYGEN CONCENTRATOR



FY4W



FY4

Model	FY4	FY4W
Rated Flux (L/min)	4	
Oxygen Content (%)	≥90	
Outlet Pressure (MPa)	0.04-0.06	
Sound Level (db)	≤50	
Nebulization Rate (ml/min)	.....	≥0.2
Voltage	AC 230V/220V/115V/110V	
Frequency	50Hz/60Hz	
Input power (W)	400	
Gross Weight (Kg)	25	
Dimension (mm)	380×310×600	
Optional Function	Remote Control; Adjustable Timer; Liquid Crystal Display Device; Multiple flow; Oxygen Display; High or Low pressure Display Device.	

5L OXYGEN CONCENTRATOR (For family / Small hospitals / Clinics use)



FY5



FY5W

Model	FY5	FY5W
Rated Flux (L/min)	5	
Oxygen Content (%)	≥90	
Outlet Pressure (MPa)	0.04-0.06	
Sound Level (db)	≤50	
Nebulization Rate (ml/min)	.....	≥0.2
Voltage	AC 230V/220V/115V/110V	
Frequency	50Hz/60Hz	
Input power (W)	480	
Weight (Kg)	30	
Dimension (mm)	430×385×670	
Optional Function	Remote Control; Adjustable Timer; Liquid Crystal Display Device; Multiple flow; Oxygen Display; High or Low pressure Display Device.	

8L OXYGEN CONCENTRATOR



Model	FY8	FY8W
Rated Flux (L/min)	8	
Oxygen Content (%)	≥90	
Outlet Pressure (MPa)	0.04-0.06	
Sound Level (db)	≤52	
Nebulization Rate (ml/min)	.....	≥0.2
Voltage	AC 230V/220V/115V/110V	
Frequency	50Hz/60Hz	
Input power (W)	480	
Gross Weight (Kg)	30	
Dimension (mm)	430x385x670	
Optional Function	Remote Control; Adjustable Timer; Liquid Crystal Display Device; Multiple flow; Oxygen Display, High or Low pressure Display Device.	

10 L OXYGEN CONCENTRATORS



FY10 / 10W

Model	FY10	FY10W
Rated Flux (L/min)	10	
Oxygen Content (%)	≥90	
Outlet Pressure (MPa)	0.04-0.06	
Sound Level (db)	≤60	
Nebulization Rate(ml/min)	.....	≥0.2
Voltage	AC 230V/220V/115V/110V	
Frequency	50Hz/60Hz	
Input power (W)	900	
Gross Weight (Kg)	63	
Dimension (mm)	450x600x1000	
Optional Function	Remote Control; Adjustable Timer; Liquid Crystal Display Device; Multiple flow; Oxygen Display; High or Low pressure Display Device.	

ACCESSORIES FOR OXYGEN CONCENTRATOR USERS



Humidifier



Oxygen-Tubing



Nebulisation



Filter core



Filter



Foot-wheel

OZONE GENERATOR

Ozone generator



YXH3-400

Model	YXH3-400
Picture	
Rated Flux (L/min)	3
Ozone Output(mg/h)	400
Oxygen Content (%)	≥90
Ozone Content(mg/L)	3.4
Outlet Pressure (MPa)	0.04-0.06
Sound Level (db)	≤53
Voltage	AC 230V/220V/115V/110V
Frequency	50Hz/60Hz
Input power (W)	380
Weight (Kg)	24
Dimension (mm)	380×310×600