



To be the first choice
where there is demand of oxygen

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About Longfian

We are Longfian

Longfian Scitech Co., Ltd, a leading manufacturer specialized in oxygen solutions for 25 years, has been professionally dedicated to R&D, production and marketing of various oxygen concentrators which include medical oxygen therapy, indoor oxygen supply, plateau simulation, industrial, veterinary and other fields. Longfian is headquartered in Baoding, China. We have 520 employees, covering an area of 40,000 square meters, with annual production capacity of 1.5 million units.

2 Million Praises from Worldwide

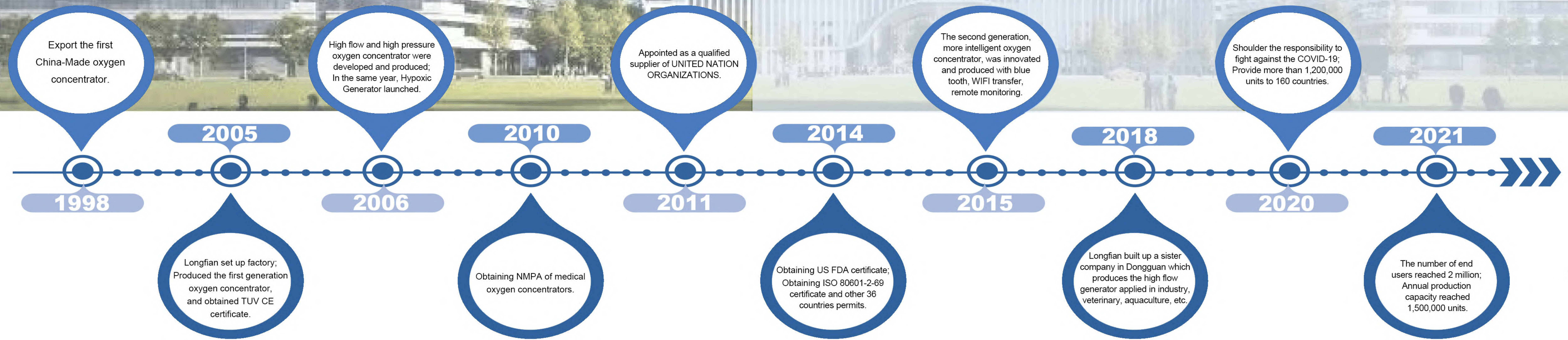
All of our products comply with ISO13485 quality managing system and some models obtained CE and FDA certificates. In the meantime, our technology and R&D team carried out technological innovations, awarded 28 invention and design patents, and completed registration of 36 countries for import permits. Till now, Longfian, has got the market share over 70% and exported to more than 160 countries around the world, benefiting 2 million end-users.

WHO & The United Nations Awards and Recognition

Longfian is the designated qualified supplier of United Nations organizations. Presently, we have undertaken many rescue material projects of oxygen concentrator from all over the world. During the time that the pandemic of COVID-19 swept the world, we supplied nearly 1,200,000 units oxygen concentrators to different countries and they have expressed their recognition and gratitude to Longfian.

Mission

On base of having realized the basic oxygen supply field, we will focus on intelligent, community-based and customized oxygen development. Longfian adheres to the value of “superior quality, professional technology, devotion to oxygen solution” and strives to care for human respiration, empowers oxygen to every rhythm of life.



MEDICAL OXYGEN CONCENTRATOR



For medical, oxygen inhalation is vital to patients with breathing-related disorders like pulmonary disease, ARDS, pneumonia, lung injuries, bronchitis, asthma, etc. Medical oxygen concentrator is designed to supply stable oxygen at 93%±3% for 24/7/365 continuously. During the Covid-19 pandemic period, Longfian 10LPM oxygen concentrator played an extraordinary role in the curing and recovery of Covid -19 patients. Besides supplying oxygen directly to patients, medical oxygen concentrator can also connect with HFNC, HBOC or BiPAP.



Oxygen therapy according to doctor's prescription



Treatment of pulmonary fibrosis
More comfortable



Available for 5 patients to inhale oxygen at the same time



Treatment of cardiovascular and cerebrovascular diseases

FOR OXYGEN THERAPY

► Features

- With medical grade oxygen concentration above 90%, better treatment effect for patients with pulmonary fibrosis (Star Model JAY-10).
- Innovative cooling technology to ensure 24/7/365 operation.
- Humidifier bottle with a pressure relief value of 6PSI, safer and more comfortable.
- Four flexible castors with two brakes, easy to move or situate in any direction, safer and more convenient.
- Simple operation functions and easy-to-read LCD display.
- Connected to HFNC, provide oxygen with stable high concentration, more comfortable (Star Model JAY-10).
- Connected to HBOC, rapidly and effectively increase the patients' SPO2.

► Optional Functions

- Dual flow
- Nebulizer
- Pulse oximeter (SPO2)

► Specification

MODEL	JAY-5AW	JAY-5BW	JAY-8	JAY-10
FLOW RATE	0.5-5L	0.5-5L	0.5-8L	0.5-10L
OUTLET PRESSURE	6-10Psi (0.04-0.07Mpa)	6-10Psi (0.04-0.07Mpa)	6-10Psi (0.04-0.07Mpa)	6-10Psi (0.04-0.07Mpa)
OXYGEN CONCENTRATION	93%(±3%)	93%(±3%)	93%(±3%)	93%(±3%)
SOUND LEVEL	≤40dB	≤40dB	≤50dB	≤50dB
POWER CONSUMPTION	≤300W	≤300W	≤550W	≤880W
ALARMS	Power failure alarm, high / low pressure alarm, low oxygen concentration alarm	Power failure alarm, high / low pressure alarm, low oxygen concentration alarm	Power failure alarm, high / low pressure alarm, low oxygen concentration alarm	Power failure alarm, high / low pressure alarm, low oxygen concentration alarm
NET WEIGHT	15kgs	15kgs	26kgs	27kgs
DIMENSION	348*280*510mm	360*300*600mm	365*375*600mm	365*375*600mm



FOR OXYGEN THERAPY

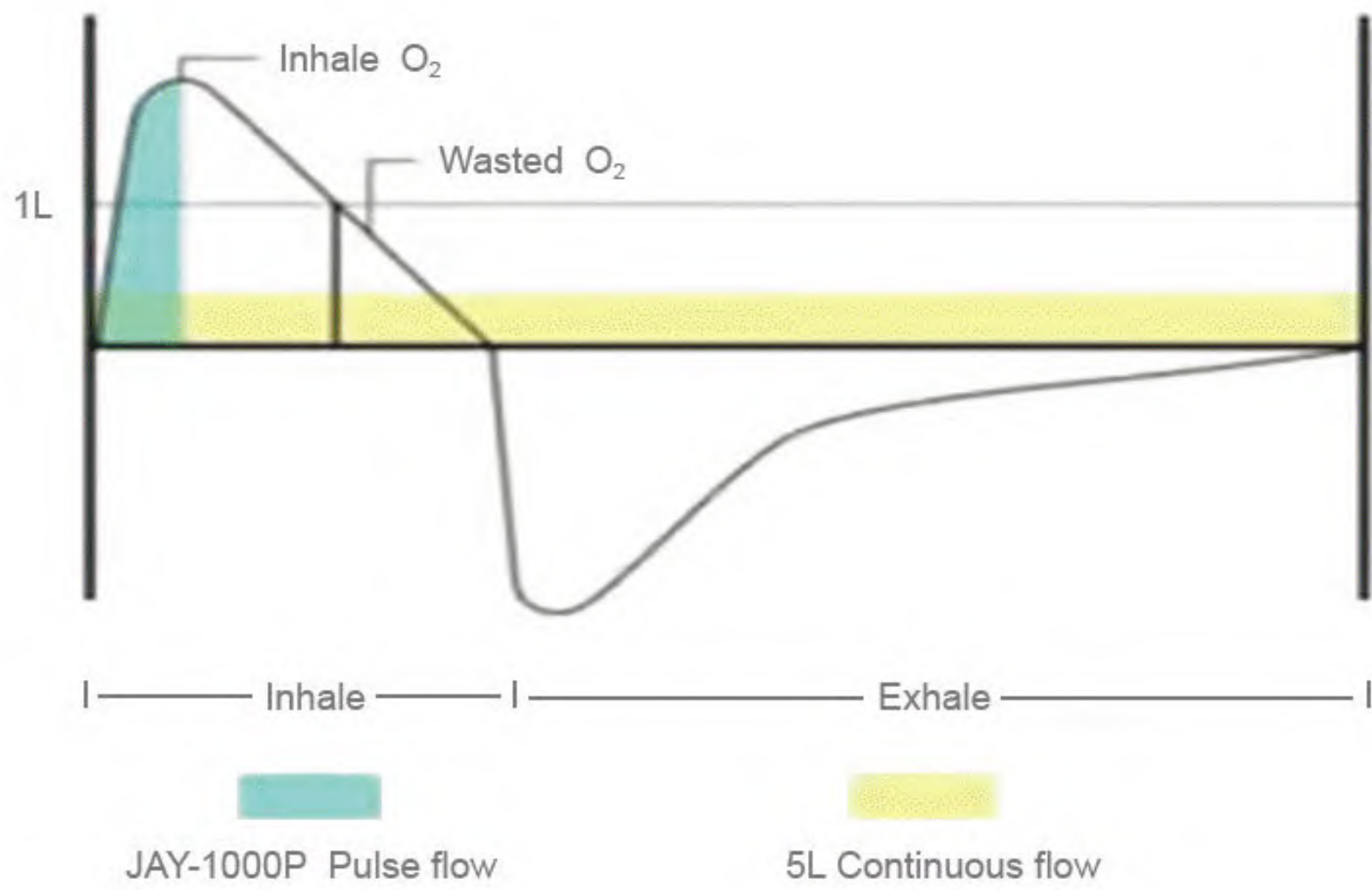


► Features

- Upgraded pulse flow settings 1-5, equivalent to 5 litres per minute of continuous oxygen flow.
- Mini size and light weight at only 1.9kgs.
- Easy-to-remove external battery.
- With a strong, comfortable shoulder bag.
- Delivers uninterrupted oxygen 24/7.
- With rechargeable battery up to 4 hours.

► Application

- It is the best choice for hypoxic patients when they go out for activities, travel or emergencies.
- It is also a perfect companion when working and traveling on the plateau above 2000 meters.



► Specification

MODEL	JAY-1000P	ALARMS	No breath; Low battery; High temperature
PULSE FLOW	Pulse dose :1-5 Settings; When there is no breath detected, the device will offer continuous flow automatically	NET WEIGHT	1.9 kgs(including battery)
OXYGEN CONCENTRATION	93%(±3%)	DIMENSION	175*85*240mm
SOUND LEVEL	≤38 dB	BATTERY	Single Battery up to 4 Hours



► Features

- Thomas compressor.
- High efficiency three-tower adsorption system more durable.
- Pressure gauge on site to adjust flexibly if necessary.
- Small and compact, easy to move for any emergency.
- Automatic dehydrator/refrigerated air dryer.

► Application

- Connected with ventilator and anaesthesia machine at ICU.
- Connected with ventilator and anaesthesia machine at operating room.
- For hospital with 50-100 beds.



► High Pressure Oxygen Concentrator

MODEL	JAY-10-4.0	POWER CONSUMPTION	≤1250W
FLOW RATE	1-10L	ALARMS	Power failure alarm, high / low pressure alarm, low oxygen concentration alarm
OUTLET PRESSURE	20-60Psi (0.14-0.4Mpa)		
OXYGEN CONCENTRATION	93%(±3%)	NET WEIGHT	90kgs
SOUND LEVEL	≤50dB	DIMENSION	910*450*720mm



MODEL	JAY-20-4.0	POWER CONSUMPTION	≤2000W
FLOW RATE	1-20L	ALARMS	Power failure alarm, high / low pressure alarm, low oxygen concentration alarm
OUTLET PRESSURE	20-60Psi (0.14-0.4Mpa)		
OXYGEN CONCENTRATION	93%(±3%)	NET WEIGHT	149kgs
SOUND LEVEL	≤60dB	DIMENSION	810x440x670mm

FOR HOSPITAL



Oxygen Generating System

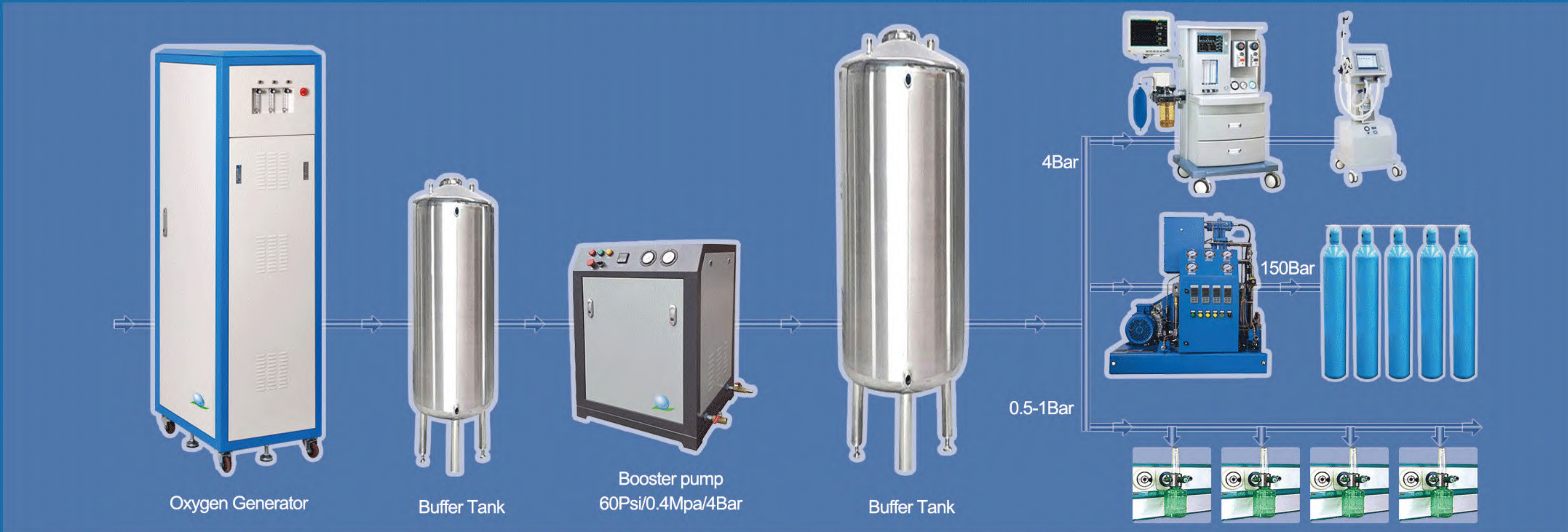
Longfian innovative oxygen generating system is designed for hospitals and clinics with 5-100 beds. The system includes PSA oxygen generator, buffer tank, booster pump, high pressure oxygen compressor, etc. It represents a higher medical standard and true sense of innovation.

Features

- It offers an economic, reliable and safe alternative to traditional oxygen system.
- The design is made for 24/7 operation.
- It is equipped with automatic start&stop function, enabling the system to start and stop automatically.

► Specification

MODEL	JAY-15	JAY-20	JAY-30	JAY-40	JAY-60
FLOW RATE	1-15L	1-20L	1-30L	1-40L	1-60L
OUTLET PRESSURE	6-10Psi / 20Psi (0.04-0.07Mpa/0.14Mpa)	6-10Psi / 20Psi (0.04-0.07Mpa/0.14Mpa)	6-10Psi / 20Psi (0.04-0.07Mpa/0.14Mpa)	6-10Psi / 20Psi (0.04-0.07Mpa/0.14Mpa)	6-10Psi / 20Psi (0.04-0.07Mpa/0.14Mpa)
OXYGEN CONCENTRATION	93%(±3%)	93%(±3%)	93%(±3%)	93%(±3%)	93%(±3%)
SOUND LEVEL	≤55dB	≤55dB	≤58dB	≤58dB	≤60dB
POWER CONSUMPTION	≤850W	≤1100W	≤1650W	≤2200W	≤3300W
ALARMS	Power failure alarm, high / low pressure alarm, low oxygen concentration alarm	Power failure alarm, high / low pressure alarm, low oxygen concentration alarm	Power failure alarm, high / low pressure alarm, low oxygen concentration alarm	Power failure alarm, high / low pressure alarm, low oxygen concentration alarm	Power failure alarm, high / low pressure alarm, low oxygen concentration alarm
NET WEIGHT	90kgs	95kgs	140kgs	160kgs	245kgs
DIMENSION	810×440×670 / 600×400×1380mm	810×440×670 / 600×400×1380mm	760×540×1380mm	760×540×1380mm	760×540×1960mm



Application

- For hospital with 5-100 beds.
- For anaesthesia machine in operating room.
- For ventilator in Intensive Care Unit (ICU).
- For high pressure cylinder filling plant.

FOR HOMECARE



With the development of science and technology, people pay more attention to physical health. Oxygen homecare are gradually acceptable and popular. Homecare oxygen concentrators have been widely used in some diseases as oxygen therapy. People can inhale oxygen at home. Oxygen concentrators have become the family partner for people's daily homecare.

► Application

● People with cervical spondylosis

Relieve the hypoxia symptom caused by cervical spondylosis.



● People with cardiovascular disease

Coronary heart disease, hypertension, heart failure, heart disease, cerebral thrombosis, cerebral hypoxia, migraine, dizziness, etc.



● People with altitude sickness

High altitude emphysema, cerebral edema, and heart disease are caused by altitude hypoxia.



● Business people

Relieve brain fatigue, enhance sleep, enhance immunity, and avoid sub-health.



● The elderly

Arteriosclerosis, senile dementia, insomnia, dizziness, senile syndrome, etc.



● Pregnant women

Proper oxygen inhalation by the pregnant during pregnancy can enable mothers and babies to obtain sufficient oxygen, enable better fetal development, prevent premature delivery, and avoid intrauterine fetal death due to hypoxia.



FOR HOMECARE

► Features

- Ultra quiet, small size and light weight.
- Convenient daily maintenance.
- Easy to read LCD display and simple control.
- With wheels and handle, easy to move.
- Inhale high purity oxygen (93%±3%) at home.
- With pulse flow setting(equivalent to 9 LPM).

► Application

- Widely applied in homecare, such as the patient with heart disease, heart failure, arteriosclerosis, etc.

► Specification



MODEL	JAY-3EW	JAY-3AW
FLOW RATE	0.5-3L	0.5-3L
OUTLET PRESSURE	6-10Psi (0.04-0.07Mpa)	6-10Psi (0.04-0.07Mpa)
OXYGEN CONCENTRATION	93%(±3%)	93%(±3%)
SOUND LEVEL	≤38dB	≤40dB
POWER CONSUMPTION	≤200W	≤280W
ALARMS	Power failure alarm, high / low pressure alarm, low oxygen concentration alarm	Power failure alarm, high / low pressure alarm, low oxygen concentration alarm
NET WEIGHT	11kgs	15kgs
DIMENSION	335*215*450mm	348*280*510mm

► Features

- Compact design, light weight and easy to carry.
- 1-5L continuous oxygen supply.
- Energy efficient and low power consumption.
- Multiple ways of power supply, connect with AC power at home, with DC power in car, also with the battery outdoors.



► Specification

MODEL	JAY-1	POWER CONSUMPTION	≤85W
FLOW RATE	1-5L	BATTERY DURATION	1-2Hours
OUTLET PRESSURE	6-10Psi(0.04-0.07Mpa)	NET WEIGHT	6kgs
OXYGEN CONCENTRATION	93%-38%	DIMENSION	350*190*320mm

VETERINARY MEDICAL OXYGEN CONCENTRATOR

In recent years, PSA oxygen concentrators have become more popular in veterinary anaesthesia and oxygen therapy, and they have almost become standard equipment in pet hospitals. The features of the oxygen concentrator including convenient to move, flowrate adjustable, high purity (93%±3%) oxygen continuous supply, quiet and lightweight. It is usually used in fields such as direct oxygen inhalation of animals, nebulization therapy, ICU or oxygen source for oxygen chamber and anaesthesia.



► Oxygen Therapy

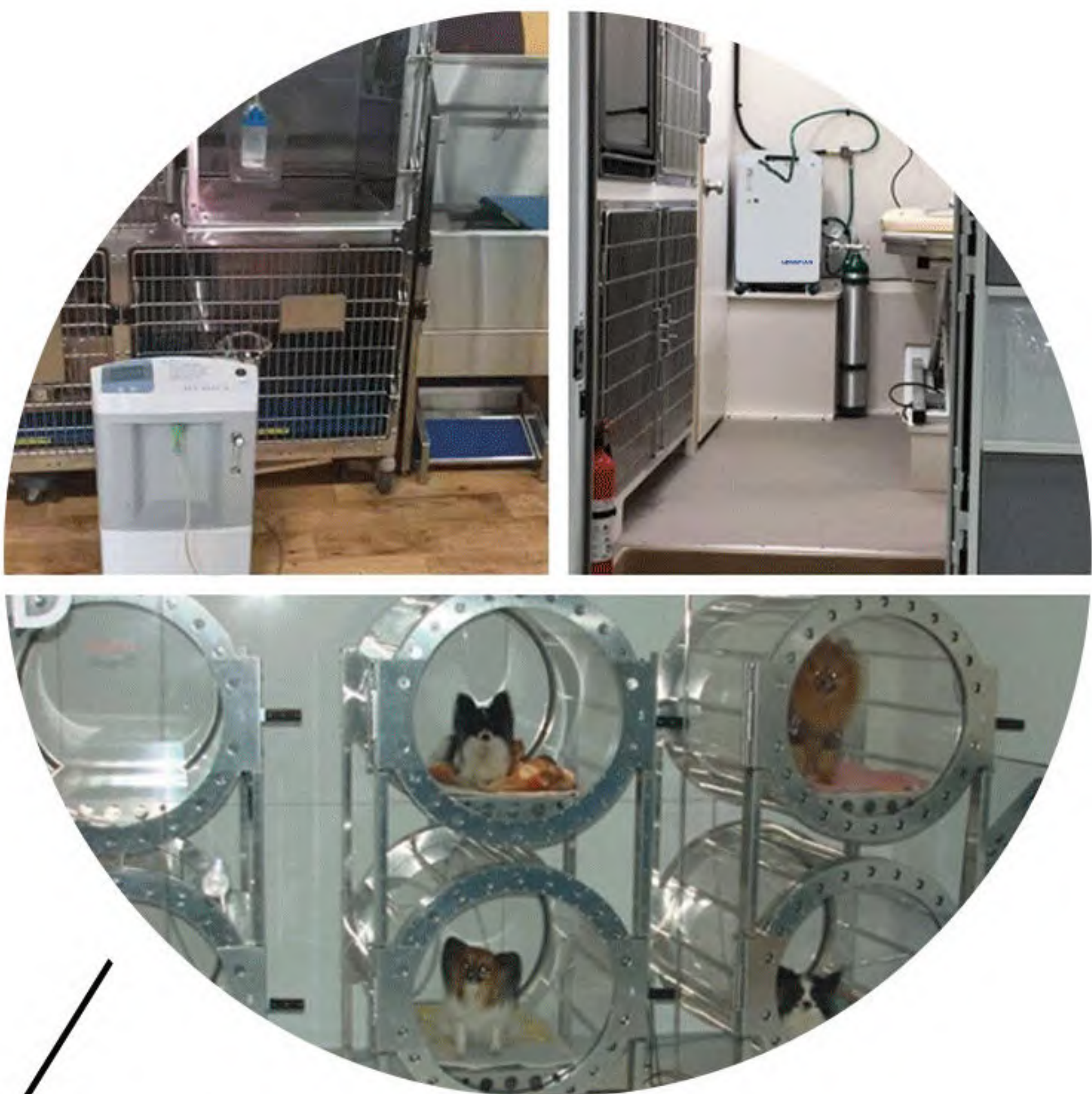
Animal wears an oxygen mask connected to an oxygen concentrator to inhale oxygen directly for treatment of some respiratory disease.



► Nebulizer Function

Longfian oxygen concentrator can be equipped with nebulizer function for animals to do nebulizer therapy. One device serves multiple functions, which greatly facilitates the operation.

Longfian oxygen concentrator has long-lasting and stable performance. 24/7/365 running is available. It can provide medical standard oxygen concentration of 93%±3%, which is best choice for pet care.



► In ICU and Oxygen Chamber

The oxygen concentrator provides continuous oxygen source to ICU or oxygen chamber.



► Anaesthesia

During the surgery of the sick pets, providing the anaesthesia machine stable and timely oxygen source through the oxygen concentrator, which greatly guarantees the smooth progress of the surgery.

DIFFUSE OXYGEN SUPPLY



Diffuse oxygen supply can be defined as oxygen concentrator generates and delivers high purity oxygen into a confined space, which is an important means to improve the indoor oxygen environment and ensure physiological and psychological health of residents in plateau areas, especially for 6500-16000ft above sea level.

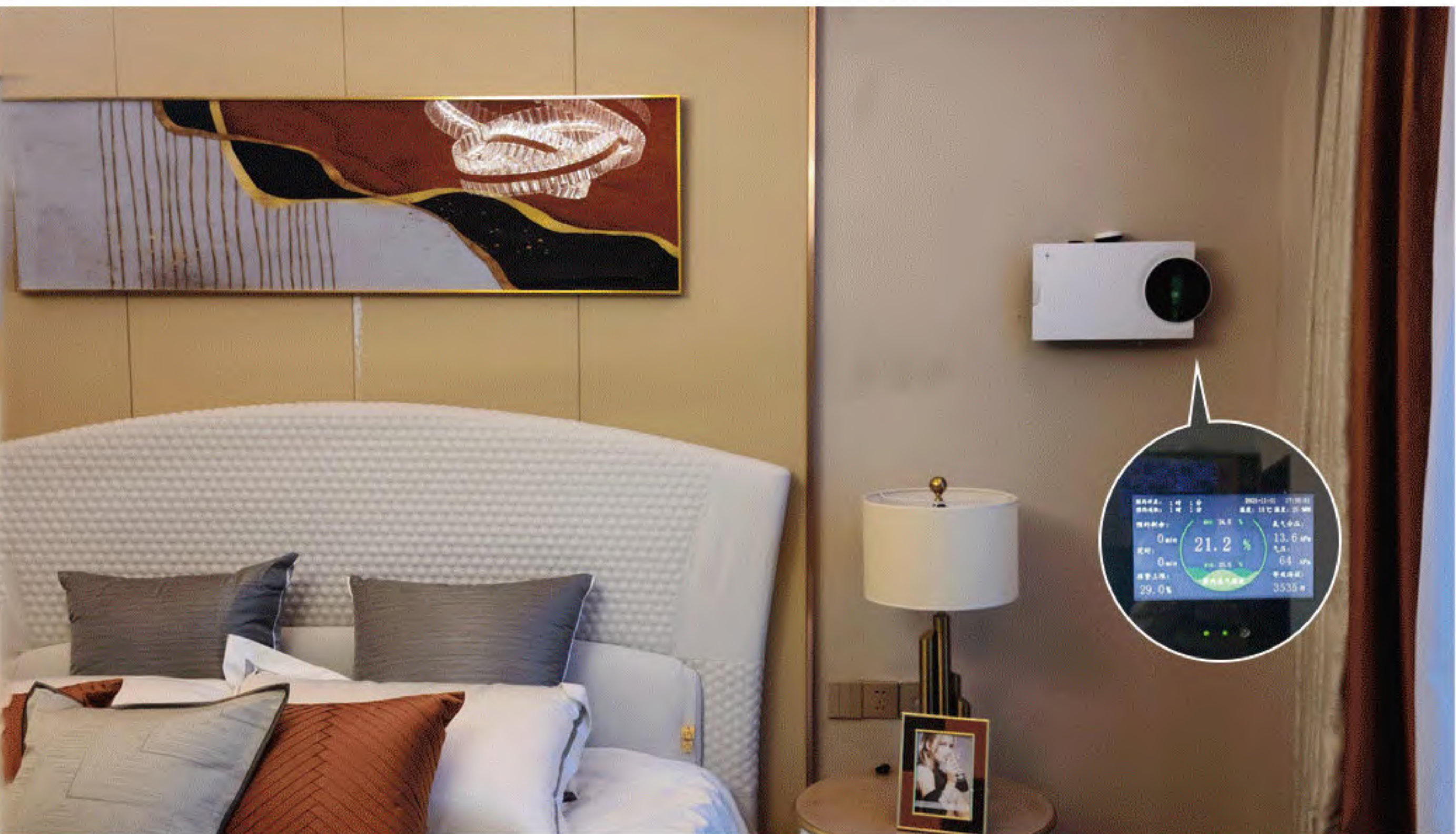
► Features

- Monitor the indoor oxygen purity level.
- Automatically adjust the indoor oxygen purity up to 21%.
- Relieve the symptoms of hypoxia for plateau residents.
- Increase SPO2(oxygen saturation) from 88% to 93%-95%.
- Extend life span of plateau people.
- Improve the internal environment of human breathing and promote a virtuous cycle of body metabolism, which can relieve the symptoms of hypoxia.

► Application

- For plateau indoor space: military camp, government, schools, residence, etc.
- For plain indoor space: gyms, sauna rooms, exclusive hotels, anoxic space, etc.
- Applicable countries and regions: Peru, Chile, Bolivia, Venezuela, Colombia, Ecuador, Mexico, Argentina, Ethiopia, Armenia, and various border zones in highland areas, such as the Sino-India border plateau.

MODEL	JAY-10M	JAY-20M	JAY-40M	JAY-60M
FLOW RATE	0-10L	0-20L	0-40L	0-60L
OUTLET PRESSURE	6-10Psi / 20Psi (0.04-0.07Mpa/0.14Mpa)	6-10Psi / 20Psi (0.04-0.07Mpa/0.14Mpa)	6-10Psi / 20Psi (0.04-0.07Mpa/0.14Mpa)	6-10Psi / 20Psi (0.04-0.07Mpa/0.14Mpa)
OXYGEN CONCENTRATION	93%(±3%)	93%(±3%)	93%(±3%)	93%(±3%)
SOUND LEVEL	≤52dB	≤55dB	≤58dB	≤60dB
POWER CONSUMPTION	≤550W	≤1100W	≤2200W	≤3300W
ALARMS	Power failure alarm, high / low pressure alarm	Power failure alarm, high / low pressure alarm	Power failure alarm, high / low pressure alarm	Power failure alarm, high / low pressure alarm
WEIGHT	30kgs	95kgs	160kgs	245kgs
DIMENSION	470×440×700mm	810x440x670 / 600*400*1380mm	760*540*1380mm	760*540*1960mm



» SIMULATED ALTITUDE TRAINING HYPOXIC GENERATOR

High-altitude training, also known as hypoxia training, is a training regimen that focuses on improving athletic performance and physical fitness. Hypoxic generator is used to simulate oxygen concentration at altitude up to 6,500m above sea level. Athletes and mountaineers simulate the plateau environment for training anywhere. It helps them adapt to the high altitude better. Hypoxia treatment also plays an important role in numerous medical applications.

Specification

MODEL	JAY-10H	JAY-20H	JAY-40H	JAY-60H
HYPOXIC FLOW	100LPM	200LPM	400LPM	600LPM
HYPOXIC CONCENTRATION	9%-16%	9%-16%	9%-16%	9%-16%
OUTLET PRESSURE	6-10Psi(0.04-0.07Mpa)	6-10Psi (0.04-0.07Mpa)	6-10Psi (0.04-0.07Mpa)	6-10Psi (0.04-0.07Mpa)
OXYGEN CONCENTRATION	93%(±3%)	93%(±3%)	93%(±3%)	93%(±3%)
SIMULATED ALTITUDE	0-6500m(0-21330ft)	0-6500m(0-21330ft)	0-6500m(0-21330ft)	0-6500m(0-21330ft)
SOUND LEVEL	≤50dB	≤55dB	≤58dB	≤60dB
POWER CONSUMPTION	≤550W	≤1100W	≤2200W	≤3300W
ALARMS	Power failure alarm, high / low pressure alarm	Power failure alarm, high / low pressure alarm	Power failure alarm, high / low pressure alarm	Power failure alarm, high / low pressure alarm
NET WEIGHT	27kgs	95kgs	160kgs	245kgs
DIMENSION	365×375×600mm	810x440x670 / 600*400*1380mm	760*540*1380mm	760*540*1960mm
OPTIONAL	1.Pulse oximeter 2.Monitor system	1.Pulse oximeter 2.Monitor system	1.Pulse oximeter 2.Monitor system	1.Pulse oximeter 2.Monitor system



► Features

- Hypoxic purity 9%-16% to simulate different elevation heights.
- With both hypoxic outlet and oxygen outlet for different demands.
- Continuous operation 24/7.

► Application

- For sports center / gym / home: improve athletes performance.
- For mountaineers: adapt to high altitude environment, relieve altitude sickness.
- For military use: survival training for high altitude environment.
- For health care and medical: adjuvant therapy for diabetes, asthma, lung illnesses (For example, post-cure treatment of Covid-19 patient), heart and vascular diseases, spinal cord and other injuries.

INDUSTRIAL OXYGEN CONCENTRATOR

● Welding and cutting

Oxygen is now considered to be one of welding industry's raw materials, and which is essential for all forms of combustion.

● Glass blowing

Oxygen is always used as the mixing gas in scientific glassblowing. To generate oxygen for torchwork and glass blowing.

● Aquaculture

In aquaculture, oxygen is diffused into water to increase stocking density and production yields. Consistently higher dissolved oxygen levels result in lower mortality and higher food conversion rates, minimized fish mortality from decreased disease rates and fish stress, pumping cost savings due to reduced water re-circulation.

● Sewage treatment

Fill the sewage with pure oxygen, increase the respiration of aerobic microorganisms in the water, and prevent the reproduction of anaerobic microorganisms, thereby purifying the sewage.

● Oxygen source for ozone generator

Ozone is a powerful disinfectant and bleach with the advantage that it does not leave chemical residues, and is less harmful to people and the environment. Therefore, ozone is often used in the prevention and control of diseases and pests in agricultural, the disinfection of fishing boats, swimming pools, etc., the washing and disinfection of clothes in industrial laundry, etc.



OXYGEN CONCENTRATOR RELATED PRODUCTS

► Flow Splitter

A device distributes medical oxygen from a source to multiple independent outlets to provide oxygen for the adults or children. It can be connected to the oxygen concentrator with the outlet pressure as shown in the following table. Place it on table or wall mounting horizontally.



MODEL	JAY-500	ACCURACY	±5%
DIMENSION	38.1×11.4×16.6cm	INLET PRESSURE	7Psi / 20Psi / 60Psi
WEIGHT	2.5kgs	OUTLETS	2/3/4/5 or customization
OPERATING TEMPERATURE	5°C to 40°C	FLOWMETERS	2L/5L or customization
STORAGE TEMPERATURE	-1°C to 60°C		

► Oxygen Sensor

Oxygen sensor is aimed for oxygen concentration and flow rate monitor. It adopts ultrasonic technology with high accuracy, strong anti-interference ability, rapid response, and long service life features.



MODEL	JAY-110A	MAX PRESSURE	150KPA
OUTPUT	USRT port support purity signal output	FLOW RESOLUTION	0.1L/min
POWER	DC5V-12V	FLOW DETECTION ACCURACY	±0.2L/min or readings 5% (Max)
PURITY DETECTION ACCURACY	±2% FS@ (5-55)°C	LED INDICATOR	Red: oxygen purity<82% Blue: oxygen purity ≥82% Yellow: flow rate <0.5L/min
MAX FLOW	10LPM		
SIZE (L X W X H)	120.5x22x22mm	WEIGHT	25g

► Oxygen Analyzer

Designed to measure oxygen concentration, oxygen flow and outlet pressure for PSA oxygen concentrator.

Features

- The oxygen analyzer measures oxygen concentration flow using ultrasound technology. It has the characteristics of high accuracy, strong anti-interference ability, rapid response, long-term stability, no need for regular adjustment, and long lifespan;
- The pressure test adopts imported modules with high accuracy.



► Specification

MODEL	JAY-120	PRESSURE DETECTION RANGE	0-21 Psi
OPERATING VOLTAGE	DC 9V	PRESSURE DETECTION ACCURACY	±1 Psi
FLOW DETECTION RANGE	0-10 L/min	DIMENSION	185*80*31mm
FLOW DETECTION ACCURACY	±0.2 L/min	OPERATING TEMPERATURE	5°C~55°C
OXYGEN CONCENTRATION DETECTION RANGE	RANGE (V/V) 21.0-96.0 %	STORAGE TEMPERATURE	-5°C~65°C
OXYGEN CONCENTRATION DETECTION ACCURACY	±2%	RELATIVE HUMIDITY	5~85%RH