

CAN GAS SYSTEMS COMPANY LIMITED

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Medical Molecular Sieve Oxygen Generator





COMPANY PROFILE



Profile

CAN GAS Systems Co., Ltd. is a national high-tech enterprise. It is one of the earliest companies to set foot in the field of air separation technology in China. It has always been committed to the research and development of PSA gas separation system and engineering technology, and is committed to providing more suitable oxygen supply solutions for various medical oxygen consumers such as hospitals and clinics. The company has developed into an international enterprise integrating R&D, design, manufacturing, sales, engineering and service, with a modern production base of 28,000m² and a number of national patent certificates and computer software copyright certificates. All of its enterprises strictly control the quality of each unit of the whole system and have passed the certification of ISO9001 quality management system, ISO13485 medical device quality management system, ISO45001 occupational health and safety management system and ISO14001 environmental management system.

Over the past 20 years, CAN GAS has gathered rich experience in the production of accumulated thousands of CanGas[®] gas separation system, with products in more than 90 countries and regions around the world. It has provided a number of CanGas[®] oxygen generation systems for general hospitals, specialized hospitals and elderly care institutions at all levels, including Heilongjiang Provincial People's hospital (over 3,000 beds). It has provided special solutions such as oxygen generation system and air separation system for China Aerospace Engineering, Beijing Olympic Games and national anti-tumor protein engineering laboratory.

CanGas[®] oxygen system can fully meet the oxygen demand of various medical units. The company has an experienced and dedicated great team who can provide professional pre-sales, sales and after-sales services for different medical units. Sales engineers can provide customers with type selection consultation and analysis of specific working conditions according to different oxygen demand and use conditions, so as to provide customers with more suitable oxygen solutions; the company's engineering design and manufacturing personnel fully embody advanced technology and perfect manufacturing technology in every CanGas[®] product; the company's after-sales service system and customer service concept ensure that every sold product can meet the requirements of in time service, to that each running equipment can maintain good working condition.



Medical Molecular Sieve Oxygen Generator



Certifications & Qualifications



Business license of enterprise legal person



Medical device registration certificate of medical molecular sieve oxygen generation system



Medical device registration certificate of oxygen supply system in Medical Center



Medical device registration certificate of medical center suction system



License for installation, repair and transformation of special pressure equipment (GC2)



High tech enterprise certificate



Medical device production license



Business license of medical devices



Work safety license

- Business license of enterprise legal person
- High tech enterprise certificate
- Medical device production license
- Business license of medical devices
- Medical device registration certificate of medical molecular sieve oxygen generation system
- Medical device registration certificate of oxygen supply system in Medical Center
- Medical device registration certificate of medical center suction system
- License for installation, repair and transformation of special pressure equipment (GC2)
- Grade 3 of professional contract for construction mechanical and electrical installation engineering
- Work safety license
- CE certificate
- BV certified Report
- ISO9001 quality management system certification
- ISO13485 medical device management system certification
- ISO14001 environmental management system certification
- ISO45001 occupational health and safety management system certification
- Multiple patent certificates
- Multiple computer software copyright registration certificates



Grade 3 of professional contract for construction mechanical and electrical installation engineering



CE certificate



BV certified Report



ISO9001 quality management system certification



ISO13485 medical device management system certification



ISO14001 environmental management system certification



ISO45001 occupational health and safety management system certification



Multiple patent certificates



Multiple computer software copyright registration certificates

Medical Molecular Sieve Oxygen Generator



Product

Each gas system of CanGas® has to go through at least 13 rigorous quality inspection procedures, which endows each system with outstanding quality and high reliability.

Principle of PSA oxygen generator

Pressure swing adsorption (PSA) oxygen generator is an automatic equipment which uses zeolite molecular sieve as adsorbent, uses the principle of pressurized for adsorption, depressurization for regeneration to adsorb and release nitrogen from the air, so as to separate high-purity oxygen. Zeolite molecular sieve is a kind of white spherical granular adsorbent which is processed by special pore type treatment process, and its surface and interior are full of micropores. The characteristics of its pore make it possible to realize the dynamic separation of O_2 and N_2 . The separation of O_2 and N_2 by zeolites is based on the small difference of the dynamic diameters of the two gas molecules. N_2 has a faster diffusion rate in the micropores of zeolites, while O_2 has a slower diffusion rate. The diffusion rate of water and CO_2 in compressed air is similar to that of nitrogen. Finally, oxygen molecules are enriched from the adsorption tower.



Structure of medical oxygen generation system

CanGas® medical oxygen generation system is generally composed of air compressor, air dryer, air filters, PSA oxygen generator, oxygen filters, oxygen pressurization device, oxygen storage tank, oxygen monitoring system and backup system.



Medical Molecular Sieve Oxygen Generator



Medical molecular sieve oxygen generator

More reliable

- Product oxygen meets all the technical specifications of international medical oxygen standards;
- Brand and reputation guarantee by 20+ years experience, thousands of product running in over 90 countries and regions all over the world;
- Design and production in strict accordance with ISO, YY, GB and other relevant medical device standards;
- The original imported molecular sieve with more advanced and higher separation efficiency is adopted;
- Low voltage operation without potential safety hazard;
- The most simplified engineering design concept to reduce the possible failure points;
- Realizes automatic start-up and shutdown, remote start-up and shutdown, and linkage control of equipment in the whole system;
- CANBUS multi-function monitoring system can realize realtime online display of oxygen flow, purity, pressure and dew point,
- Fault alarm and maintenance reminders make it easy for you to master all operating conditions of the equipment;
- High efficiency muffler and silencing engineering to avoid noise interference in the hospital;
- Turnkey, each product & system has been well pre debugged before delivery.

More economical

- The unique REFLUX component control system reduces the compressed air consumption and energy consumption;
- The EES system (energy utility system) makes it easy for you to achieve on-demand production and reduce operating costs;
- Fully automatic operation, saving labor cost.

More convenient

- Optional Wi-Ctrl remote wireless monitoring system and mobile app to realize remote monitoring, debugging/commissioning and upgrading;
- Oxygen generator maintenance and instrument calibration are simple and easy. The routine maintenance is limited to the normal maintenance of the air compressor and the regular replacement of the filter element in the filter;
- Fully integrated skid or box design, easy to install and move;
- In order to meet the demand of oxygen supply in special areas, truck-mounted oxygen generation system was launched, which can supply oxygen or fill oxygen cylinders at any time, no matter in the battlefield, high altitude or disaster area, without power or water supply;
- Unique function of rapid oxygen production and (unqualified oxygen) automatic venting makes oxygen production faster, especially for cold start and easy to control.

Medical Molecular Sieve Oxygen Generator



Medical Molecular Sieve Oxygen Generator Models & Specifications

With a complete product system and solutions, GAN GAS can meet the oxygen demand of large, medium, small and micro medical institutions, as well as the special oxygen demand of mobile oxygen generation, oxygen generation and oxygen cylinder filling.

Oxygen concentration and other physical and chemical indexes meet or exceed the requirements of YY/T 0298-1998 <General Technical Specification for Medical Molecular Sieve Oxygen Equipment>, YY1468-2016 <Oxygen Concentrator Gas Supply System for Medical Gas Pipeline Systems>, and ISO13485 <Medical Device Management System certification>.

Model	Flowrate (Nm ³ /h)	O ₂ Purity (%)	Dimension (mm)			Weight (kg)
			Length	Width	Height	
CAP-O-3	1 ~ 3	Standard: 93±3%	1000	950	1580	515
CAP-O-5	3 ~ 5		1300	1200	1750	694
CAP-O-10	5 ~ 10		1500	1400	1850	1076
CAP-O-15	10 ~ 15	Optional 1: 95±1%	1700	1550	2120	1352
CAP-O-20	15 ~ 20		1800	1650	2250	1618
CAP-O-25	20 ~ 25	Optional 2: 99±0.5%	1800	1650	2700	1899
CAP-O-30	25 ~ 30		1900	1750	2700	2166
CAP-O-40	30 ~ 40		2100	1900	2900	2633
CAP-O-50	40 ~ 50		2100	1950	3100	3179

Note: please contact our sales for the models not listed above.



SMART C CAP-O-3 series integrated medical oxygen generator (ALL IN ONE)



Can Gas® Medical Molecular Sieve Oxygen Generator



CanGas® CFS medical oxygen generation and cylinder filling system



Can Gas® Mobile medical gas system



Medical Molecular Sieve Oxygen Generator

SMART C CAP-O-3 series integrated medical oxygen generator (ALL IN ONE)

SMART C CAP-O-3 series of integrated medical oxygen generator is a highly integrated and intelligent on-site oxygen generator designed and developed to meet the medical oxygen demand of small and medium-sized medical institutions. The equipment is designed and produced in strict accordance with relevant standards of ISO, YY and GB. The design of SMART C series medical oxygen generator fully considers the user's use characteristics and use place. It has excellent performance in convenience, intelligence, economy and wide applicability.



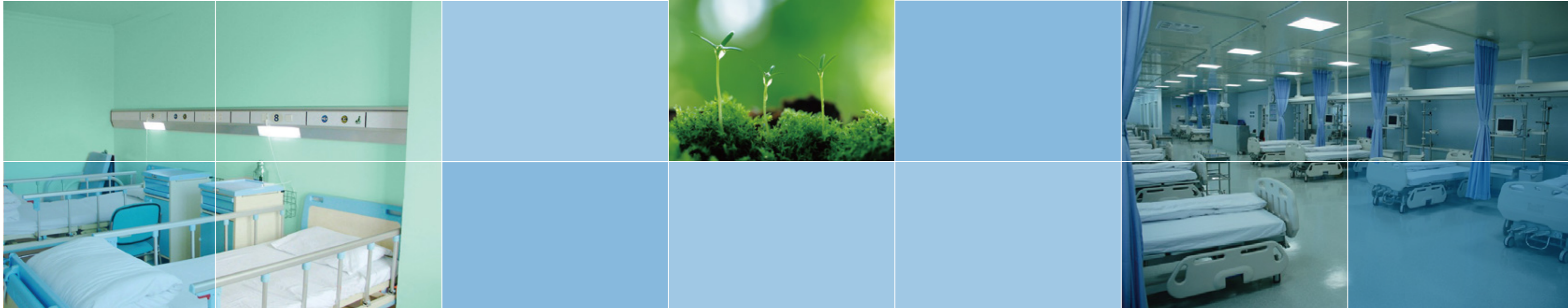
CanGas® CFS medical oxygen generation and cylinder filling system

CanGas® CFS medical oxygen generation and cylinder filling system uses PSA oxygen generator to directly produce medical oxygen from compressed air on site. After pressurization, the pressure for cylinder filling can reach 150 or 200bar, which can realize continuous production and cylinder filling of medical oxygen on site.

CFS series of medical oxygen generation and cylinder filling system is a fully integrated skid mounted design, which covers a small area and is easy to operate.



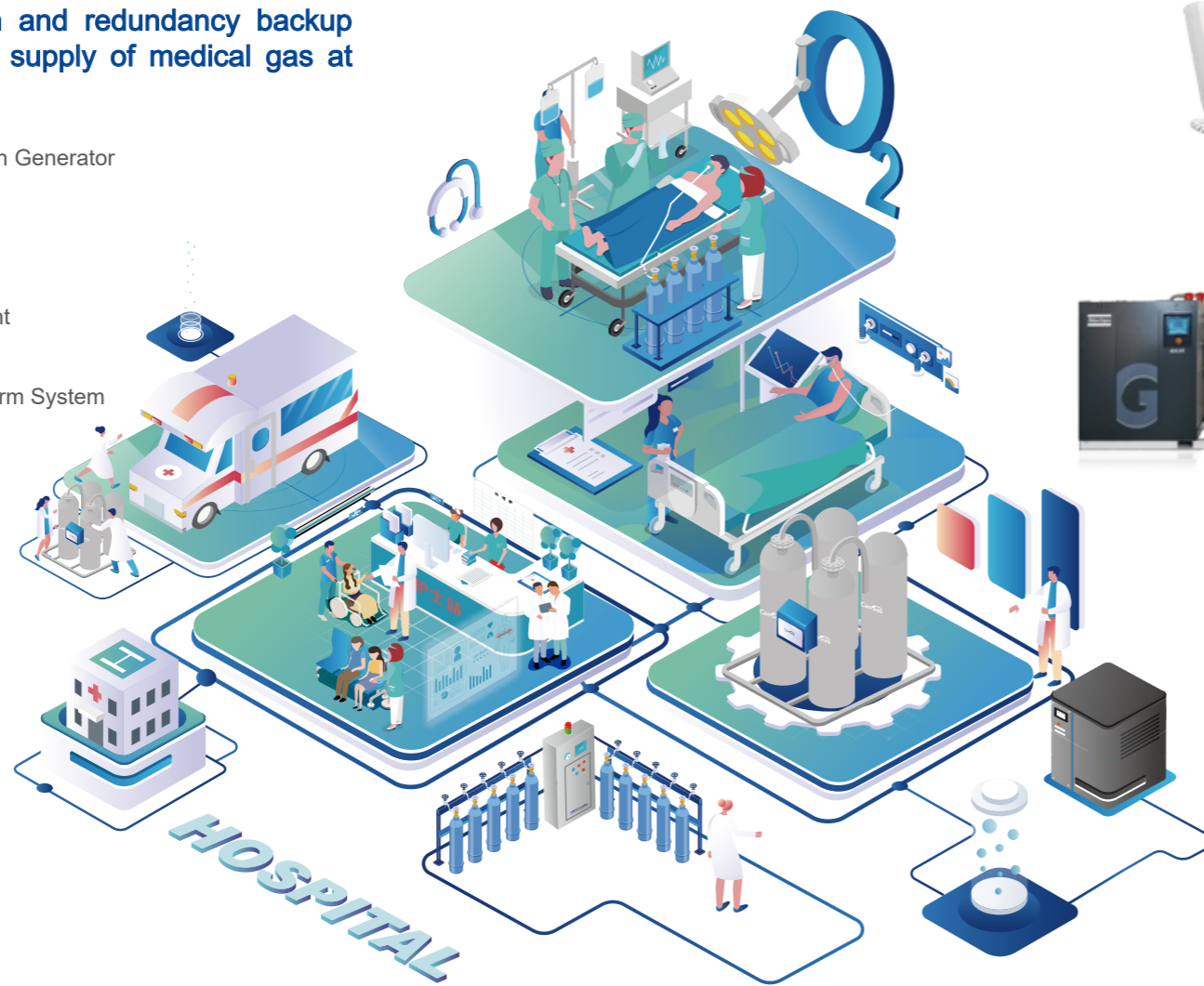
Medical Molecular Sieve Oxygen Generator



CanGas® Medical Gas Systems

Time-proven CanGas® medical gas system and engineering solutions, unique multiple protection and redundancy backup design, ensure worry-free supply of medical gas at site.

- Medical Molecular Sieve Oxygen Generator
- Medical Center Suction System
- Medical Air System
- Medical Gas Cylinder Manifolds
- Medical Gas Terminal Equipment
- Medical Call Intercom System
- Medical Gas Monitoring and Alarm System



Medical Molecular Sieve Oxygen Generator



CanGas® Medical Gas Systems



CanGas® Medical Molecular Sieve Oxygen Generator

CanGas® Medical PSA (molecular sieve) Onsite Oxygen generation system is automatic equipment, which adopts pressure swing adsorption (PSA) technology. It uses zeolite molecular sieve as the adsorbent, and adopts the principle of pressurized for adsorption and depressurization for regeneration, absorbs and releases nitrogen from the air, thereby high-purity oxygen is separated as product oxygen.

CanGas® Medical Center Suction System

The CanGas® medical center suction (vacuum) system is composed of vacuum pump, vacuum tank, collecting tank, check valve, vacuum solenoid valve, sterile filter, vacuum sterilization device and intelligent control system. The vacuum pump can be liquid ring vacuum pump, rotary vane vacuum pump or claw vacuum pump.



CanGas® Medical Air System

The CanGas® medical air system consists of air compressor, air dryer, air filters, air storage tank and intelligent control system. The air compressor can be screw air compressor or Oil-free scroll compressor.

Meets the quality requirements of medical air, instrument air and dental air at the same time. Each system can be configured separately, or be equipped with a dental air system.



CanGas® Medical Gas Cylinder Manifolds

CanGas® medical gas cylinder manifolds have a variety of styles and specifications, with semi-automatic and fully automatic changeover manifolds.

CanGas® Medical Gas Terminal Equipment

CanGas® Gas terminal equipment includes Medical Bed Head Units, Gas Outlet and Call Intercom systems, etc. There are a variety of specifications and styles to choose from.

The Medical Bed Head Units has classic strip type, cartoon type and mural type;



CanGas® Medical Call Intercom system

CanGas® Call Intercom system has both intelligent type and informatization type; It can meet the needs of smart ward calls and clinical information management in medical and health institutions.

CanGas® Medical Gas Monitoring and Alarm system

CanGas® gas monitoring and alarm system devices include local gas source monitoring and alarming, regional monitoring and remote monitoring and alarming; alarm methods include digital indicating alarms, audible alarms and visual alarms;

CanGas® medical gas monitoring and alarm system can display and monitor the operating conditions of each unit in real time, and display and monitor technical indicators such as the flowrate, purity, pressure, and dew point of stored gas in real time.



Medical Molecular Sieve Oxygen Generator



Part of successful cases

China Hospital customers

Heilongjiang Provincial Hospital (over 3,000 beds)
 Heilongjiang University of Chinese Medicine First Affiliated Hospital
 Changchun Central Hospital
 Longchuan County People's Hospital
 Hunchun City Hospital
 Antu County Hospital
 China Yixueke Xueyuan Hemopathy Hospital
 Nilka People's Hospital
 Yumin People's Hospital
 Jiashi People's Hospital
 Tumushuke People's Hospital
 Yining People's Hospital
 Huangyuan People's Hospital
 Gonghe Hospital of Traditional Chinese Medicine
 Minhe Hospital
 Chengxian People's Hospital
 Chengxian Hospital of Traditional Chinese Medicine
 Huixian People's Hospital
 Xihe Hospital of Traditional Chinese Medicine
 Liangdang People's Hospital
 Ningxian No.2 People's Hospital
 Shidong Hospital in Yangpu, Shanghai
 Shanghai Xujing North Daju Nursing Home
 Huanglong People's Hospital

Overseas hospital customers

Angola KILAMBA KIAXI Hospital	Yemen Field Hospital	Vietnam...	Madagascar....
Kazakhstan Almaty Child Care Center	Russian Field Hospital	Mongolia....	
Kazakhstan Almaty Center Hospital	Iraq Field Hospital	Yemen....	
Kazakhstan Uralsk Children Hospital	Philippines Gabriela Silang General Hospital	Kazakhstan...	
Congo Kinshasa Hospital	Cameroon Hôpital Ste. Jeanne d'antide de Galagala	Peru....	

Chenggu Hospital
 Xi'an International Medical Center
 Xi'an Gaoxin Hospital
 Shangluo International Medical Center
 Hohhot Mongolian Hospital of Traditional Chinese Medicine
 Huolin Gol Hospital of Traditional Chinese Medicine
 Ulanqab Zhuozi People's Hospital
 Dorbod People's Hospital
 Beijing Dongcheng First Maternity and Child Health Hospital
 Beijing Xiangshan Hospital
 Beijing Pinggu Maternity and Child Health Care Hospital
 Hubei Rongjun Hospital
 Affiliated Hospital of Hebei Medical University
 Yongqing People's Hospital
 Boye Hospital
 Qinghe Certer Hospital
 Hebi No.1 People's Hospital
 Zhongmu People's Hospital
 Henan Huaxian People's Hospital
 Tongxu Central Hospital
 Shangcai People's Hospital
 Huaihua Wuling Hospital
 Linyi Hedong People's Hospital
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Real Case



Angola KILAMBA KIAXI Hospital



Kazakhstan Almaty Center Hospital



Congo Kinshasa Hospital



Yemen Field Hospital



Iraq Field Hospital



Philippines Gabriela Silang General Hospital



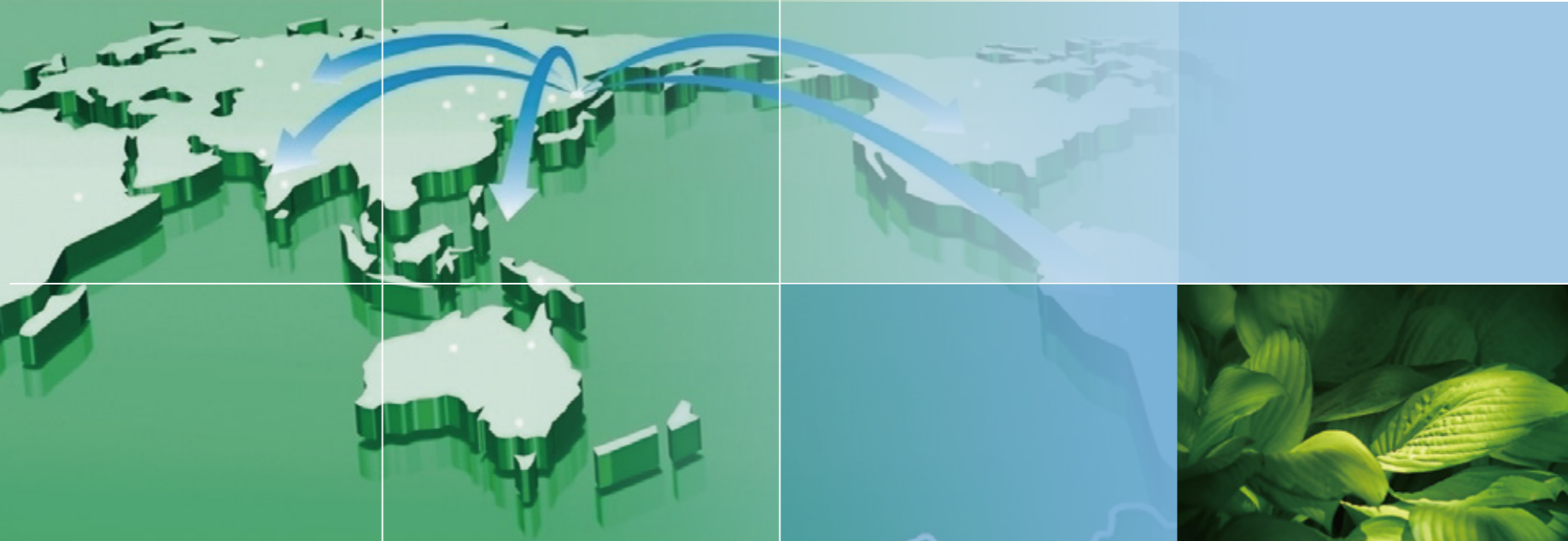
Peru Hospital geriatrico Cerro Colorado



Cameroon Hôpital Ste. Jeanne d'antide de Galagala



Vietnam TTH Ha Tinh General Hospital



After-sales Service and Network

To CAN GAS, service and support are not forms and slogans, but they are rooted in the core philosophy of our company and carry our permanent commitment to users.

Advantages

- For domestic service North China Centre, South China Centre, East China Centre, Northeast China Centre, Northwest China Centre, and Southwest China Centre are set up to provide quick response services.
- Sound international distributor/service network, such as Russia, Philippines, Vietnam, Bangladesh, Indonesia, Costa Rica, Mexico, Brazil, Peru, USA, Kenya, Madagascar, Cameroon, Kazakhstan, Mongolia, Mauritius, Singapore, Egypt, Tunisia, Israel...
- The key engineers have been engaged in the after-sales service of this system for more than 8 years, and all the after-sales service engineers have undergone strict selection and training.
- Maintain close cooperation with the suppliers of auxiliary facilities and components, and provide spare parts and accessories timely
- 7* 24 service.
- Be equipped with the Wi-Ctrl remote wireless monitoring system developed by our company. When the equipment has alarm information, it will automatically send the information to the remote data center and send an email to the mailbox of the local equipment maintenance engineer, and automatic telephone notification, can promptly let remote and local joint maintenance equipment.
- After-sales engineers have passed professional training and assessment and obtained authorized service certificates for air compressors, refrigeration dryers and other equipment.

Services

- Warranty complying with the CAN GAS Product Warranty Policy and warranty of suppliers of auxiliary facilities and spare parts, as well as with national & international regulations.
- One year free warranty. Breakdown in this period out of quality problem, free maintenance and spare parts replacement will be provided (details see CAN GAS Product Warranty Terms)
- Maintenance for all service life of all equipment.
- Free technical consult service for all equipment.
- Out of warranty period, materials, accessories and labor services required for daily maintenance and maintenance are provided at the best price.
- During the warranty period, the purity, capacity, flowrate etc. are guaranteed in warranty period as contract agreements. Quality issue is fully covered.
- Regular return visits, training free of charge on equipment operation and maintenance.

Join in cooperation, join hands in the future

Why Choose CAN GAS?

1. 20+ Filed Experience will ensure your technical problem is fixed right away and professional proposals & solutions are available within 24 hours.
2. Integrated R&D, design, production, sales, engineering and service ensure you not only get excellent quality products, but also proper in time support and service.
3. ISO9001, ISO13485, CE Certificate will help you get imported right of medical equipment immediately, no trouble at local custom or regulation.
4. CAN GAS is committed to improve the construction of hospital's medical environment via introducing advanced technology, continue to integrate more high-tech, sophisticated and cutting-edge technology into our products, and continue to improve product quality

What you need to do now is pick up your phone or send us email right now.

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