

气体项目 解决方案

GAS PROJECT SOLUTIONS

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SPECIALTY

Air Separation Equipment

Cryogenic Application Equipment

专业 / 空气分离设备 低温应用设备



北京立达恒科技发展有限公司
LDH GAS SYSTEMS COMPANY LIMITED

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解决方案

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COMPANY PROFILE

公司简介



北京立达恒科技发展有限公司是一家专门从事各类空气分离设备和低温应用设备的研发、设计和制造、销售及服务为一体的高新技术企业。公司拥有多项国家专利证书，计算机软著证书，并通过了欧盟CE认证及ISO9001认证。

公司注重科技创新，与国外同行合作，与国内多家研究机构、大学院校进行交流与合作。充分吸收国内外企业先进的设计理念、严格的管理程序和精湛的制造技术。在真诚服务支持的基础上，大胆采用新工艺、新技术，增强了公司的产品研发、制造和服务能力，向节能减排、质量优越和多元化迈进。

通过多年对气体行业的研究与探索，我们始终坚持，为各行业客户提供优质的产品 & 专业的服务。我们坚持用中国产品服务全球用户的理念，利用云科技更快捷更直观的服务全球各地的客户。

LDH Gas Systems Company Limited is a high-tech enterprise specializing in the R & D, design and manufacturing, sales and service of various air separation equipment and low temperature application equipment. The company has a number of national patent certificates, computer software certificates, and has passed the EU CE certification and ISO9001 certification.



The company pays attention to scientific and technological innovation, cooperates with foreign counterparts, and exchanges and cooperates with many domestic research institutions, universities and colleges. Fully absorb the advanced design concepts, strict management procedures and exquisite manufacturing technology of domestic and foreign enterprises. On the basis of sincere service support, the company boldly adopted new processes and technologies, enhanced the company's product research and development, manufacturing and service capabilities, and moved forward to energy conservation, emission reduction, superior quality and diversification.

Through years of research and exploration in the gas industry, we always insist on providing high-quality products and professional services for customers in various industries. We adhere to the concept of serving global users with Chinese products, and use cloud technology to serve customers around the world more quickly and intuitively.

公司产品涉及冶金、石化、电子、机械、建材、食品、医药、新材料等领域。产品畅销全国各地，更是远销秘鲁、委内瑞拉、奥地利、尼加拉瓜、伊拉克、印度、孟加拉国、巴基斯坦、菲律宾、安哥拉、哈萨克斯坦等国家。

The company's products involve metallurgy, petrochemical, electronics, machinery, building materials, food, medicine, new materials and other fields. The products sell well all over the country, and are exported to Peru, Venezuela, Austria, Nicaragua, Iraq, India, Bangladesh, Pakistan, the Philippines, Angola, Kazakhstan and other countries.

产品主要 Main products:

◎ **LPLN** 液氮发生器
Liquid nitrogen generator

◎ **LPLO** 液氧发生器
Liquid oxygen generator

◎ **LPO** 变压吸附制氧机90-95%
Pressure swing adsorption oxygen generator 90-95%

◎ **LHO** 高纯制氧机99-99.5%
High purity oxygen generator 99-99.5%

◎ **LPN-PSA** 制氮机98-99.9995%
Nitrogen generator 98-99.9995%

◎ **LMN** 膜式制氮机
Membrane nitrogen generator

企业资质

CERTIFICATE



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1. 制氮系统 Nitrogen Generator System

变压吸附 (PSA) 制氮机

Pressure Swing Adsorption(PSA) Nitrogen Generator

工作原理 Working Principle

变压吸附(PSA)制氮机是以碳分子筛为吸附剂，利用压缩空气中氧、氮分子在分子筛中吸附量的差异，通过加压吸附，降压解吸的原理从压缩空气中直接制取产品氮气的气体分离设备。

Pressure swing adsorption (PSA) nitrogen generator is a gas separation equipment that takes carbon molecular sieve as adsorbent, and directly produces product nitrogen from compressed air based on the principle of pressure adsorption and depressurization desorption by taking advantage of the difference in the adsorption amount of oxygen and nitrogen molecules in the molecular sieve in the compressed air.

产品特点 Product Features

- 快速和稳定的现场产品氮气制取，最短在10~20分钟即可产出合格氮气；
Fast and stable on-site product nitrogen production, and qualified nitrogen can be produced in 10-20 minutes at the shortest;
- 选用更高效和稳定的分子筛并采用特有的PSA节能技术，能耗更低；
More efficient and stable molecular sieves and special PSA energy-saving technology are selected, with lower energy consumption;
- 标准配置分子筛水污染防护报警装置和多重分子筛保护技术，确保制氮机能更长久、更稳定地运行；
The standard configuration of molecular sieve water pollution protection alarm device and multiple molecular sieve protection technology ensure that the nitrogen generator can operate longer and more stably;
- 采用空气罐、氮气罐与制氮机同撬预制，用户现场安装简单快捷
The air tank, nitrogen tank and nitrogen generator are prefabricated on the same skid, and the installation is simple and fast
- 选配L-TECH多功能监控系统和远程无线监控系统，可实现设备本地监控和远程监控，并可实现系统远程升级，系统运行工况尽在掌握；
L-tech multi-functional monitoring system and remote wireless monitoring system are selected, which can realize local monitoring and remote monitoring of equipment, and realize remote upgrading of the system. The operating conditions of the system can be mastered;
- 专有的氮气纯度控制技术，满足不同行业的多种氮气应用需求；
Proprietary nitrogen purity control technology to meet various nitrogen application needs of different industries;
- 多项专利技术及独创技术应用，设备全面升级，节能环保；
A number of patented technologies and original technology applications, comprehensive equipment upgrading, energy saving and environmental protection;
- 7*24 小时全面和专业的服务
7 * 24-hour comprehensive and professional service
- 可定制满足石油石化、医药食品、ASME、防爆、船级社认证等特殊机型。
It can be customized to meet the requirements of petroleum and petrochemical, pharmaceutical and food, ASME, explosion-proof, classification society certification and other special models.

产品构成 Product composition

流程图 Flow Chart



LPN 系列 SERIES

参数表
Specification



产气量 Capacity	纯度 % Purity	型号 Model	长 (mm) length	宽 (mm) Width	高 (mm) Height	重量 (kg) Weight	进口尺寸 (DN) Inlet size	出口尺寸 (DN) Outlet size	缓冲罐容积 (m³) Buffer tank volume
5	99	LPN-5H	1000	1000	1640	380	DN15	DN15	
	99.9	LPN-5I	1000	1000	1640	380	DN15	DN15	
	99.99	LPN-5J	1300	1100	1400	560	DN15	DN15	0.3
	99.999	LPN-5K	1300	1100	1400	560	DN15	DN15	0.3
20	99	LPN-20H	1450	1300	1450	700	DN20	DN15	0.3
	99.9	LPN-20I	1500	1400	2030	900	DN25	DN20	0.5
	99.99	LPN-20J	1500	1500	1700	1000	DN25	DN15	0.5
	99.999	LPN-20K	1600	1450	1950	1400	DN25	DN15	0.5
50	99	LPN-50H	1600	1400	2100	1100	DN25	DN20	0.5
	99.9	LPN-50I	1700	1500	2100	1300	DN25	DN15	0.5
	99.99	LPN-50J	1700	1550	2160	1500	DN40	DN25	0.5
	99.999	LPN-50K	2000	1800	2500	2300	DN40	DN40	0.5
100	99	LPN-100H	1600	900	2230	1050	DN40	DN50	1.5
	99.9	LPN-100I	1800	1750	2250	1400	DN40	DN25	1.5
	99.99	LPN-100J	2100	1950	2250	2700	DN40	DN40	1
	99.999	LPN-100K	2200	1300	2900	3300	DN65	DN40	2
150	99	LPN-150H	1800	1150	2200	1400	DN40	DN25	1.5
	99.9	LPN-150I	2100	1200	2250	2200	DN40	DN40	1.5
	99.99	LPN-150J	2200	1300	2700	3200	DN50	DN40	2
	99.999	LPN-150K	2200	1500	3100	4400	DN80	DN50	4
200	99	LPN-200H	2000	1150	2300	1700	DN40	DN25	2
	99.9	LPN-200I	2100	1200	2500	2200	DN40	DN50	2
	99.99	LPN-200J	2200	1400	2850	4100	DN65	DN50	2.5
	99.999	LPN-200K	2200	1500	3000	4100	DN65	DN50	4
300	99	LPN-300H	2200	1250	2620	2500	50	40	3
	99.9	LPN-300I	2100	1200	2500	2240	50	40	2.5
	99.99	LPN-300J	2200	1500	3400	4200	80	50	3
	99.999	LPN-300K	2200	1500	3400	4260	80	80	5
400	99	LPN-400H	2200	1300	2900	3350	65	40	4
	99.9	LPN-400I	2200	1500	3050	4200	65	50	5
	99.99	LPN-400J	2200	1500	3400	4300	80	80	6
500	99	LPN-500H	2200	1400	2850	4100	65	50	5
	99.9	LPN-500I	2200	1500	3400	4200	80	50	6
	99.99	LPN-500J	2200	1500	3400	4200	80	80	8
800	99	LPN-800H	2200	1500	3400	4300	80	80	10
	99.9	LPN-800I	2200	1500	3400	4200	80	80	10
1200	99	LPN-1200H	2200	1500	3400	4300	80	80	12

其他参数向公司咨询 Consult the company for other parameters

1. 制氮系统 Nitrogen Generator System

箱体式制氮机

Box Type Nitrogen Generator

产品介绍

Product Introduction

小型一体机系列全性能制氮机是为满足科研机构、实验室对高品质氮气需求而设计开发的一款高度集成和智能的现场制氮设备,设备严格按照ISO、GB相关标准设计生产。

设计充分考虑了用户使用特点和使用场所,它在可靠性、便捷性、经济性及广泛的适用性方面表现卓越。

The small-scale all-in-one machine series full-performance nitrogen generator is a highly integrated and intelligent on-site nitrogen generator designed and developed to meet the demand of scientific research institutions and laboratories for high-quality nitrogen.

The equipment is designed and produced in strict accordance with the relevant standards of ISO and GB. The design fully considers the user's use characteristics and use place, and it is excellent in reliability, convenience, economy and wide applicability.



主要特点

Main Features

独立集成

Independent Integration

系统标准内置高品质微油螺杆空压机, 空气处理系统, 氮气净化。无需外接任何设备。可根据用户用气特点外置空气和氮气缓冲罐。
System standard built-in high-quality micro oil screw air compressor, air treatment system, nitrogen purification. No external equipment is required. External air and nitrogen buffer tanks can be installed according to the gas consumption characteristics of users.

多重防护

Multiple Protection

组合式空气预处理系统, 分子筛使用寿命更长, 可达10万小时。
Combined air pretreatment system, the service life of molecular sieve is longer, up to 100000 hours.

智能方便

Intelligent And Convenient Integration

一键启动, 全自动运行。随时供氮气, 无安全隐患。
One key start, full automatic operation. Nitrogen is supplied at any time, without potential safety hazard.

扩展升级

Independent Integration

多种系统升级选项, 可适配多种机构用户的氮气需求。
Multiple system upgrade options, which can adapt to the nitrogen needs of various institutional users.

可靠高效

Reliable And Efficient

7*24小时不间断运行设计, 设备可靠、经济高效。
7*24-hour uninterrupted operation design, reliable, economical and efficient equipment.

安静运行

Quiet Operation

坚固和特殊降噪设计的机箱, 最大降低噪音干扰。
Rugged and special noise reduction design of the chassis to minimize noise interference.

自由移动

Free Movement

配有移动脚轮, 设备可灵活地放置在任何用气点及设备旁。
Equipped with movable casters, the equipment can be flexibly placed at any air consumption point and beside the equipment.

安装简单

Simple Installation

“即插即用”设计。
“Plug and play” design.

参 数 选 型 Parameter selection

型 号 MODEL	LPN-10		LPN-20	LPN-25	LPN-30
氮气纯度 Nitrogen purity	99.99~99.9999%				
氮气产量 Nitrogen production	10~15Nm³/h	12~20Nm³/h		15~25Nm³/h	18~30Nm³/h
工作压力 working pressure	7-8bar				
出口压力 Outlet pressure	5-6bar				
电源 Power Supply	单相, 220V交流电 Single phase, 220V(AC)				
设备尺寸(长*宽*高) Equipment size (L * W * H)	1400*750*1500mm			1700*750*1700mm	
接口尺寸 Interface size	进口 Inlet : G1"; 出口 Outlet : G1/2"				
设备重量 Equipment weight	650kg	750kg		850kg	1000kg
内置氮气缓冲罐 Built in nitrogen buffer tank	0.1m³			0.1m³	
选配过滤器 Optional filter	四级精密空气过滤器 Four stage precision air filter				
可选控制 Optional control	可选触屏智能自动控制, 在线氮浓度、流量控制和显示 Optional touch screen intelligent automatic control, online nitrogen concentration, flow control and display				
压缩空气(预留10%的冗余) Compressed air (reserve 10% redundancy)	1.2m³/min@8bar @99.99%	1.5m³/min@8bar @99.99%		1.9m³/min@8bar @99.99%	2.3m³/min@8bar @99.99%
选配储罐 Optional storage tank	外置0.1m³空气储罐 External 0.1m³ Air storage tank			外置0.2m³空气储罐 External 0.2m³ Air storage tank	
备注 Remarks	*以上机型压缩空气量基于常规海拔设计 The compressed air volume of the above models is designed based on the normal altitude				

膜制氮机

Membrane Nitrogen Generator

LMN 系列 SERIES

工作原理

Working Principle

空气经压缩机压缩过滤后进入高分子膜过滤器，由于各种气体在膜中溶解度和扩散系数不同，导致不同气体在膜中相对渗透速率不同。根据这一特性，可将各种气体分为“快气”和“慢气”。

当混合气体在膜两侧压力差的作用下，渗透速率相对快的气体，如水、氢气、氦气、硫化氢、二氧化碳等透过膜后，在膜的渗透侧被富集，而渗透速率相对较慢的气体，如甲烷、氮气、一氧化碳和氩气等气体则被滞留在膜的侧被富集，从而达到混合气体分离的目的。



The air enters the polymer membrane filter after being compressed and filtered by the compressor. Due to the different solubility and diffusion coefficient of various gases in the membrane, the relative permeation rate of different gases in the membrane is different. According to this characteristic, various gases can be divided into "fast gas" and "slow gas". When the mixed gas is affected by the pressure difference on both sides of the membrane, the gas with relatively fast penetration rate, such as water, hydrogen, helium, hydrogen sulfide and carbon dioxide, permeates through the membrane and is enriched on the permeation side of the membrane, while the gas with relatively slow penetration rate, such as methane, nitrogen, carbon monoxide and argon, is retained on the side of the membrane and enriched to achieve the purpose of separation of mixed gas.

变压吸附 (PSA) 制氧机

Pressure Swing Adsorption(PSA) oxygen Generator

工作原理 Working Principle

变压吸附制氧机是以沸石分子筛为吸附剂，利用压缩空气中氧、氮在分子筛表面吸附量的差异，通过加压吸附，降压解吸的原理从压缩空气中直接制取产品氧气的气体分离设备。LPO系列制氧机是一款便捷的，高性价比的现场制氧系统，以经过时间验证的可靠性和耐用性广泛地应用于各个行业。

The pressure swing adsorption oxygen generator is a gas separation equipment that takes zeolite molecular sieve as adsorbent and directly produces product oxygen from compressed air by the principle of pressure adsorption and depressurization desorption, taking advantage of the difference in adsorption amount of oxygen and nitrogen in compressed air on the surface of molecular sieve. LPO series oxygen generator is a convenient and cost-effective on-site oxygen generation system, which is widely used in various industries with time proven reliability and durability.

产品特点 Product Features

① 快速和稳定的现场产品氧气制取，最短在20分钟即可产出合格氧气；
Fast and stable on-site product oxygen production, and qualified oxygen can be produced in 20 minutes at least;

② 选用更高效和稳定的分子筛并采用特有的PSA节能技术，能耗更低；
More efficient and stable molecular sieves and special PSA energy-saving technology are selected, with lower energy consumption;

③ 标准配置分子筛水污染防治报警装置和多重分子筛保护技术，确保制氧机能更长久、更稳定地运行；
Standard configuration of molecular sieve water pollution protection alarm device and multiple molecular sieve protection technology to ensure that the oxygen generator can operate longer and more stably;

④ 采用空气罐、氧气罐与制氧机同撬预制，用户现场安装简单快捷；
The air tank, oxygen tank and oxygen generator are prefabricated on the same skid, and the installation on site is simple and fast;

⑤ 选配L-TECH多功能监控系统和无线远程监控系统，可实现设备本地监控和远程监控，并可实现系统远程升级，系统运行工况尽在掌握；

L-tech multi-functional monitoring system and wireless remote monitoring system are selected, which can realize local monitoring and remote monitoring of equipment, and realize remote upgrading of the system. The operating conditions of the system can be mastered;

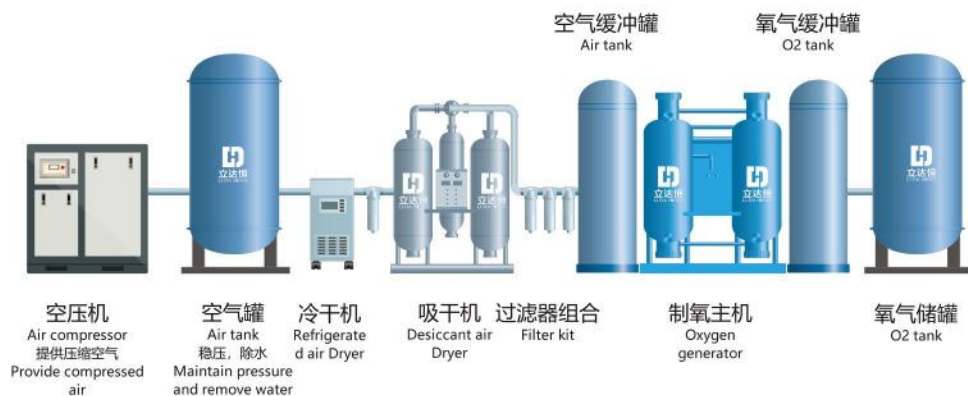
⑥ 专有的氧气纯度控制技术，满足不同行业的多种氧气应用需求；
Proprietary oxygen purity control technology to meet the needs of various oxygen applications in different industries;

⑦ 设备漆面处理工艺，美观、耐用；
Equipment paint treatment process, beautiful and durable;

⑧ 7*24 小时全面和专业的服务。
7*24 hours comprehensive and professional service.

产品构成 Product composition

流程图 Flow Chart



PSA制氧机

PSA Oxygen Generator

LPO 系列 SERIES

工作环境参数 Working environment parameters

工作环境温度：5-45℃
Working environment temperature: 5-45℃

适应海拔高度：2000米以下。（高海拔地区用户请咨询公司工程师）
Adaptive altitude: below 2000 meters. (for users in high altitude areas, please consult the company's engineers)

压缩空气入口参数 Compressed air inlet parameters

压缩空气质量：满足ISO8573-1 Class 1-4-1
Compressed air quality: satisfy ISO8573-1 class 1-4-1

空气入口压力：7.5bar(g)
Air inlet pressure: 7.5bar(g)

空气入口温度：5-30℃
Air inlet temperature: 5-30℃



参数选型 Parameter selection

型号 MODEL	空气量 (m³/min) Air flow	空压机功率 (KW) Power of air compressor	吸干机 Adsorption dryer	纯度 Purity	外形尺寸(长*宽*高 mm) Overall dimension (L*W*H)	主机重量 (kg) Weight	主机入口 Host entry	主机出口 Host outlet	工艺罐 Process tank 规格Specifications/容积 Volume	型式 Type
LPO-3	0.6	5.5		90-93%	1200*900*1900	520	DN15	G1/2"	φ300*1260	吸附塔*2+缓冲罐*2
LPO-5	1	7.5		90-93%	1350*1050*2100	750	DN20	G1/2"	φ400*1410	吸附塔*2+缓冲罐*2
LPO-10	2	15		90-93%	1550*1300*2100	1100	DN25	G1/2"	φ450*1700	吸附塔*2+缓冲罐*2
LPO-15	3	22		90-93%	1700*1450*2350	1500	DN32	G1/2"	φ600*1500	吸附塔*2+缓冲罐*2
LPO-20	4	30		90-93%	1800*1550*2350	1750	DN32	G1/2"	φ650*1500	吸附塔*2+缓冲罐*2
LPO-25	5	37		90-93%	1900*1650*2400	2000	DN40	G1"	φ700*1540	吸附塔*2+缓冲罐*2
LPO-30	6	45		90-93%	2000*1750*2400	2250	DN40	G1/2"	φ750*1510	吸附塔*2+缓冲罐*2
LPO-35	7	55		90-93%	1970*1250*2800	1800	DN40	DN25	1m³	吸附塔*2
LPO-40	8	55		90-93%	2000*1300*2460	2380	DN40	DN25	1m³	吸附塔*2
LPO-50	9	55		90-93%	2000*1300*2800	2790	DN50	DN25	1.5m³	吸附塔*2
LPO-60	10	75	需要	90-93%	2000*1300*2800	2930	DN50	DN25	1.5m³	吸附塔*2
LPO-70	15	90	需要	90-93%	2200*1500*2900	3190	DN50	DN40	2m³	吸附塔*2
LPO-80	16	110	需要	90-93%	2200*1500*2900	3585	DN50	DN40	2m³	吸附塔*2
LPO-90	19.8	110	需要	90-93%	2250*1550*2980	3940	DN50	DN40	2.5m³	吸附塔*2
LPO-100	22	132	需要	90-93%	2370*1500*3050	4249	DN65	DN40	3m³	吸附塔*2
LPO-110	24.2	132	需要	90-93%	2370*1500*3240	4508	DN65	DN40	4m³	吸附塔*2
LPO-120	26.4	160	需要	90-93%	2370*1500*3440	4708	DN65	DN40	4m³	吸附塔*2
LPO-130	28.6	185	需要	90-93%	2370*1500*3600	4910	DN65	DN50	5m³	吸附塔*2
LPO-160	36	250	需要	90-93%	2440*1850*3700	5810	DN80	DN65	6m³	吸附塔*2
LPO-200	44	2*110	需要	90-93%	2440*1850*3700	5810	DN80	DN65	6m³	吸附塔*2

高纯99.5%PSA制氧机

High Purity 99.5% PSA Oxygen Generatr

LHO 系列 SERIES

产品介绍 Product Introduction

高纯氧制氧机采用先进的变压吸附技术来制取纯度最高到99.5%的高纯氧气。此机型产生的高纯氧适用于诸如金属切割等行业。

High purity oxygen generator adopts advanced pressure swing adsorption technology to produce high purity oxygen with purity up to 99.5%. The high purity oxygen produced by this machine is suitable for industries such as metal cutting.



产品特点 Product Features

- ① 一体式设计，整套装置集成于一个或两个撬装底盘上，方便运输、安装和操作；
Integrated design, the whole device is integrated on one or two skid mounted chassis to facilitate transportation, installation and operation;
- ② 高效，稳定；Efficient and stable;
- ③ 全自动控制；Full automatic control;
- ④ 维护保养少；Less maintenance;
- ⑤ 技术与设计成熟稳定；
Mature and stable technology and design;
- ⑥ 结实耐用；Strong and durable;
- ⑦ 可靠的控制系统和工艺阀门保证设备性能稳定可靠。
Reliable control system and process valves ensure stable and reliable equipment performance.

工作环境参数 Working environment parameters

工作环境温度：5-45℃
Working environment temperature: 5-45℃

适应海拔高度：2000米以下。（高海拔地区用户请咨询公司工程师）
Adaptive altitude: below 2000 meters. (for users in high altitude areas, please consult the company's engineers)

压缩空气入口参数 Compressed air inlet parameters

压缩空气质量：满足ISO8573-1 Class 1-4-1
Compressed air quality: satisfy ISO8573-1 Class 1-4-1

空气入口压力：7.5bar(g)
Air inlet pressure: 7.5bar(g)

空气入口温度：5-30℃
Air inlet temperature: 5-30℃

产品构成 Product composition



流程图 Flow Chart

LC系列-氧气充装系统 LC SERIES Oxygen Filling System

产品介绍 Product Introduction

一体式变压吸附制氧机加氧气充装系统是LDH最新近针对需求研发的。一站式的制氧+充装随时随地满足您的用气需求，一旦具备气源，该机器即可为您生产高纯高压氧气做好准备。紧凑的集成撬块化设计省去安装的苦恼，移机极为方便。不需要单独的氧气充装操作间，场地要求低。如若当地监管部门有要求，灌充台也可轻易地从撬装底盘上挪开，放置到氧气灌充间。

新型的LC系列制氧机具有操作简单，需维保部位少，科学配置，能耗低等特点。多年的变压吸附制氧机设计和制造经验，保证设备性能的稳定性。专利设计的应用，使此机型在同类产品中脱颖而出，备受欢迎。

立达恒LC系列制氧机是小型氧气站最佳选择之一，一次性投入低而投资回报高。

目前，标准机型排量已覆盖1~15标方/小时，接受全球范围内的预定。标准型号以外的设备亦可接受定制。

The oxygen filling system of the integrated pressure swing adsorption oxygen generator is the latest one developed by LDH for demand. The one-stop oxygen production + filling can meet your gas demand anytime and anywhere. Once the gas source is available, the machine can be ready for you to produce high-purity and high-pressure oxygen. The compact integrated skid design saves the trouble of installation and makes it very convenient to move the machine. No separate oxygen filling operation room is required, and the site requirements are low. If required by the local regulatory authority, the filling platform can also be easily removed from the skid mounted chassis and placed in the oxygen filling room.

The new LC series oxygen generator is characterized by simple operation, less maintenance parts, scientific configuration and low energy consumption. Many years of design and manufacturing experience of PSA oxygen generator ensure the stability of equipment performance. The application of patented design makes this model stand out among similar products and is very popular.

Lidaheng LC series oxygen generator is one of the best choices for small oxygen stations, with low one-time investment and high return on investment.

At present, the displacement of the standard model has covered 1-15 standard cubic meters per hour, and it is accepted to book globally. Equipment other than standard models can also be customized.

产品特点 Product Features

- ◎ 成熟的变压吸附技术，可靠、经济
Mature PSA technology, reliable and economical
- ◎ 最大氧气纯度高达99.5%，适用于所有应用
Maximum oxygen purity up to 99.5%, suitable for all applications
- ◎ 全系统自动化控制且独立运转
Automatic control and independent operation of the whole system
- ◎ 紧凑设计，占地面积小，安装便捷
Compact design, small footprint, convenient installation
- ◎ 即插即用
Plug and play
- ◎ 维护保养点少
Less maintenance points

产品构成 Product composition



流程图 Flow Chart

加氢纯化系统

Hydrogenation purification system

产品介绍 Product Introduction

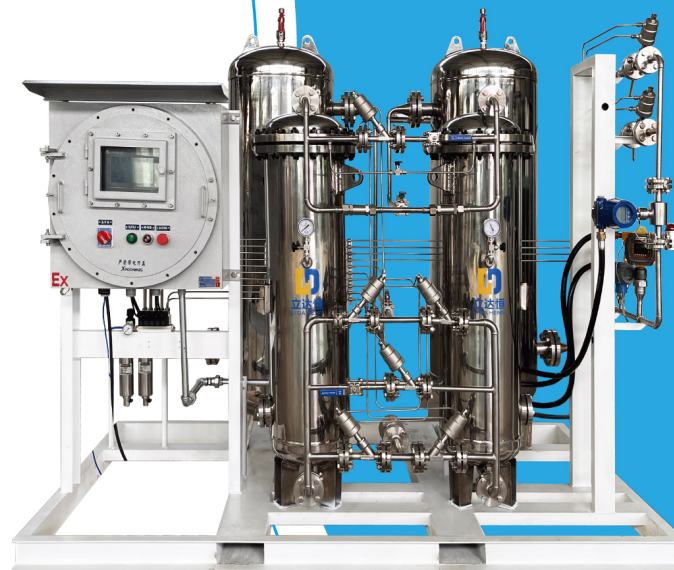
经变压吸附制氮或膜制氮装置等制出的氮气与氢气混合后,进入装有催化剂的反应器,在催化剂的作用下,氮气中的残氧与氢发生反应生成水,再利用变温吸附干燥装置脱除水分,从而制取出高纯度、高品质的产品氮气。高纯氮气中H₂含量≤800ppm,适用于对N₂中H₂含量没有要求的场合。

The nitrogen gas produced by pressure swing adsorption or membrane nitrogen production devices is mixed with hydrogen gas and enters a reactor equipped with a catalyst. Under the action of the catalyst, residual oxygen in the nitrogen gas reacts with hydrogen to generate water, which is then removed by a temperature swing adsorption drying device to produce high-purity and high-quality product nitrogen gas. The hydrogen content in high-purity nitrogen is ≤ 800ppm, suitable for situations where there is no requirement for hydrogen content in nitrogen.

技术参数

Technical Parameter

- ◎ 氮气流量:1.0~5000Nm³/h(非标定制)
- ◎ Nitrogen flow rate: 1.0~5000Nm³/h (non-standard customization)
- ◎ 氮气压力:0.6Mpa
- ◎ Nitrogen pressure: 0.6Mpa
- ◎ 氧气含量:<1ppm
- ◎ Oxygen content:<1ppm
- ◎ 常压露点:<-70℃
- ◎ Atmospheric dew point:<-70 °C
- ◎ 氢气残留量:≤800ppm
- ◎ Residual hydrogen content: ≤ 800ppm



功能特点 Functional Features

- ◎ 工艺成熟,构成简单,性能稳定,质量可靠
- ◎ Mature technology, simple composition, and reliable quality
- ◎ 投资成本低,运行高效
- ◎ Low investment cost and efficient operation
- ◎ 全自动控制、监控和运行
- ◎ Fully automatic control, monitoring, and operation
- ◎ 闭环温度控制
- ◎ Closed loop temperature control
- ◎ 操作简单易行
- ◎ Simple and easy to operate

持续创新 Continuous innovation

卓越标准 Standard of excellence

为全球用户及合作伙伴提供杰出产品、
优质服务和系统解决方案。

Provide outstanding products,
high-quality services and system
solutions for global users
and partners.

石油天然气行业氮气解决方案 Nitrogen Solution For Oil And Gas Industry

设备及用气特点

Equipment and gas consumption characteristics

用气量大，压力高；有些场合对产品氮气中CO₂量、
出。含量要求很低；需要防爆、可移动，野外使用
能现场发电或配置柴油驱动设备。

Large gas consumption and high pressure; In
some cases, the amount and discharge of CO₂ in
the nitrogen of the product. The content
requirement is very low; Explosion proof and
movable equipment is required, which can
generate power on site or be equipped with
diesel driven equipment for field use.

- 氮气产量 Nitrogen production: 5~2000Nm³/h
- 氮气纯度 Nitrogen purity: 95%~99.9995%
(国标非氧含量 National standard non oxygen content)
- 氮气压力 Nitrogen pressure: 0.1~0.6MPa
(增压后可达35Mpa Up to 35MPa after pressurization)
- 氮气露点 Nitrogen dew point: -45°C~-70°C
(常压露点 Atmospheric dew point)



应用领域 APPLICATION AREA

1 油井探测，石油、天然气的现场开采，提高油 气产量；油气井的完井和维护，保证安全。

Oil well detection, on-site exploitation of oil and natural
gas, and improvement of oil and gas production;
Completion and maintenance of oil and gas wells to
ensure safety

2 天然气的液化(LNG)生产及输送，液化气的 灌装保护。

Liquefaction of natural gas (LNG) production and
transportation, and filling protection of liquefied gas.

3 油库、气库、输油输气管道的维修吹扫， 油、气装卸时的防爆保护。

Maintenance and purging of oil depots, gas depots
and oil and gas pipelines, and explosion protection
during oil and gas loading and unloading



车载移动式用气解决方案 Vehicle Mobile Gas Solution

设备及用气特点

Equipment and gas consumption characteristics

系统高度集成，车载箱体式或撬装框架式，可快速、便捷移动，适合不同场地、不同地理环境、全天候的现场制气。

The system is highly integrated, vehicle mounted box type or skid mounted frame type, which can move quickly and conveniently, and is suitable for all-weather on-site gas production in different sites, different geographical environments.

- 氮气产量 Nitrogen production: 5~1500Nm³/h
- 氮气纯度 Nitrogen purity: 95%~99.9999%
(可配增加装置 Additional devices are available)
- 氮气压力 Nitrogen pressure: 0.1~0.6MPa
(增压后可达35Mpa Up to 35MPa after pressurization)
- 氮气露点 Nitrogen dew point: -45 °C~-70°C
(常压露点 Atmospheric dew point)



应用领域

APPLICATION AREA

- 1 室外、野外、偏远地区的现场用气要求，如油田开采、输油、输气管道的吹扫维修。

Requirements for on-site gas consumption in outdoor, outdoor and remote areas, such as oil field exploitation, oil and gas pipeline purging and maintenance.

- 2 设备在不同地点移动使用的场合，如粮库防火、油库吹扫维修等，码头油、气装卸防爆，机场飞机充氧等。

The equipment is used in different places, such as fire prevention of grain depot, purging and maintenance of oil depot, explosion-proof oil and gas loading and unloading at wharf, and oxygen charging of airport aircraft.

- 3 也可提供车载移动式的小型制氧系统设备。

It can also provide vehicle mounted mobile small-scale oxygen generation system equipment.



冶金热处理行业用气解决方案

Gas Solution For Metallurgical Heat Treatment Industry

用气特点

Gas consumption characteristics

要求氮气纯度高，露点低，氮气用量大，且有时瞬间用量大；有时需要N₂与H₂混合配比使用。

It is required to have high nitrogen purity, low dew point, large nitrogen consumption and sometimes large instantaneous consumption; Sometimes it is necessary to mix N₂ and H₂.

- 氮气产量 Nitrogen production: 5~2000Nm³/h
- 氮气纯度 Nitrogen purity: 99%~99.9999%
(国标非氧含量 National standard non oxygen content)
- 氮气压力 Nitrogen pressure: 0.1~0.6Mpa
- 氮气露点 Nitrogen dew point: -45°C~-70°C
(常压露点 Atmospheric dew point)



应用领域

APPLICATION AREA

- 1** 金属冶炼、成型，炼钢转炉密封，高炉炉顶密封，高炉炼铁煤粉喷吹。
Metal smelting and molding, steel-making converter sealing, blast furnace top sealing, blast furnace iron making pulverized coal injection.
- 2** 连铸、连轧，钢材退火、消除应力、时效、淬火、渗碳、氮碳共渗、软氮化、真空淬火等氮基气氛热处理。
Continuous casting, continuous rolling, steel annealing, stress relief, aging, quenching, carburizing, nitrocarburizing, soft nitriding, vacuum quenching and other nitrogen based atmosphere heat treatment.

- 3** 金属焊接及粉末冶金烧结，以及清洗、稀释气体。
Metal welding and powder metallurgy sintering, as well as cleaning and diluting gas.
- 4** 新型材料、复合材料的热处理气氛保护。
Heat treatment atmosphere protection of new materials and composite materials.



电子行业用气解决方案

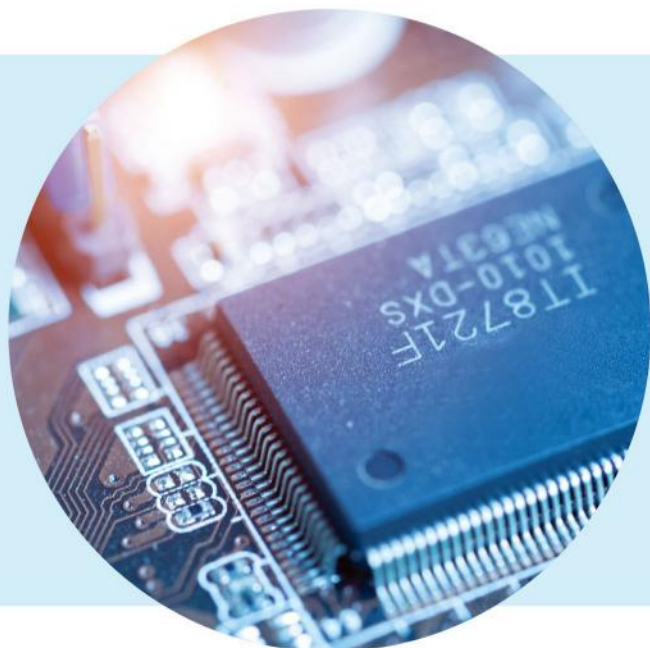
Gas Solution For Electronic Industry

用气特点

Gas consumption characteristics

要求氮气纯度高、露点低，产品氮气中不可含H₂、CO₂、CO 尘埃等杂质或含量要求很低。（基座烧制除外）

It is required that the nitrogen has high purity and low dew point, and the product nitrogen shall not contain H₂, CO₂, Co dust and other impurities or have low content requirements. (except base firing)



应用领域

APPLICATION AREA

1 无铅回流焊、波峰焊、选择性焊接、吹扫和封装，高精芯片的封存、基座的烧制。

Lead free reflow, wave soldering, selective soldering, purging and packaging, sealing of high-precision chips, and firing of bases.

2 SMT、压电晶体、集成芯片、集成电路的生产全过程。

The whole production process of SMT, piezoelectric crystal, integrated chip and integrated circuit.

3 磁性材料生产，半导体超精芯片生产，纳米材料、超导材料的生产。

Magnetic material production, semiconductor ultra precision chip production, nano material and superconducting material production.

- 氮气产量 Nitrogen production: 5~1000Nm³/h
- 氮气纯度 Nitrogen purity: 99.9%~99.9999%
(可配增加装置 Additional devices are available)
- 氮气压力 Nitrogen pressure: 0.1~0.6Mpa
- 氮气露点 Nitrogen dew point: -45 °C~-70°C
(常压露点 Atmospheric dew point)
- 氮气洁净度 Nitrogen cleanliness: 尘粒40.0印m
Dust particle 40.0 print (m)



粮油食品用气解决方案

Gas Solution For Grain Oil And Food

用气特点

Gas consumption characteristics

氮气露点要求低；氮气洁净度要求高，要求无尘无菌无异味，符合食品的卫生标准。

Low nitrogen dew point requirement; Nitrogen is required to be clean, dust-free, sterile and odorless, and meet the food hygiene standards.

应用领域

APPLICATION AREA

1

粮库粮食储存防自燃、防虫蛀。

The grain storage in the grain depot shall prevent spontaneous combustion and insect damage.

2

油脂储存、生产灌装氮封灌装，可抑制细菌生长，延长新鲜期，控制发酵，抑制气味产生，延长保质期。

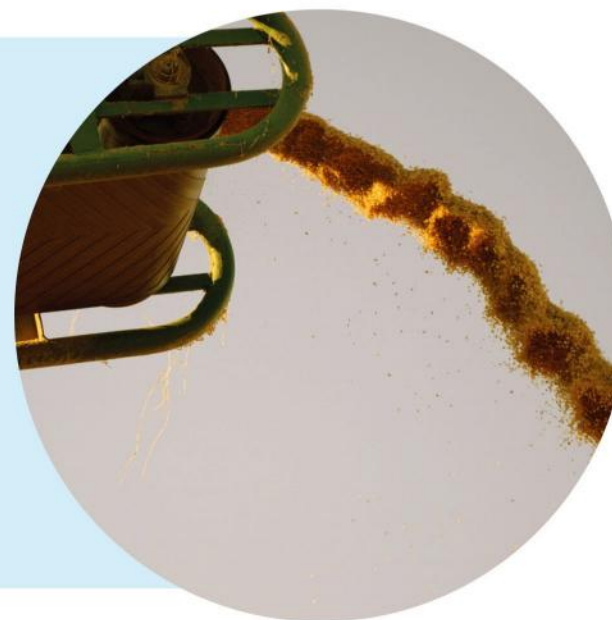
Oil storage, production filling and nitrogen sealing filling can inhibit the growth of bacteria, extend the fresh period, control fermentation, inhibit odor generation and extend the shelf life.

3

食品、啤酒饮料生产及包装全过程的氮气保护，防止氧化变质，保持新鲜和口感，延长商品摆架期。

Nitrogen protection in the whole process of food, beer and beverage production and packaging to prevent oxidation and deterioration, maintain freshness and taste, and extend the shelf life of goods.

- 氮气产量 Nitrogen production: 5~1000Nm³/h
- 氮气纯度 Nitrogen purity: 99.5%~99.999%
(国标非氧含量 National standard non oxygen content)
- 氮气压力 Nitrogen pressure: 0.1~0.6Mpa
- 氮气露点 Nitrogen dew point: -45°C~-70°C
(常压露点 Atmospheric dew point)
- 氮气洁净度 Nitrogen cleanliness: 尘粒 Dust particles 40.01pm
(无异味无菌 no odor and sterile)





制药行业用气解决方案

Gas Solution For Pharmaceutical Industry



应用领域

APPLICATION AREA

- 1** 制药生产中氮封，氮气保护，管线吹扫，物料输送和分配，防止氧气污染原材料和成品。

Nitrogen sealing, nitrogen protection, pipeline purging, material transportation and distribution in pharmaceutical production to prevent oxygen pollution of raw materials and finished products.

- 2** 生物制药中防止氧化，抑制细菌生成，全过程保护。

Prevent oxidation, inhibit bacterial production and protect the whole process in biopharmaceutical.

用气特点

Gas consumption characteristics

设备配置高，要求氮气纯度高、露点低，氮气洁净度要求高，无尘无菌、无异味，要求氮气中 CO_2 、 CO 、 H_2O 、 C_mH_n 含量等杂质很少，符合药品生产的卫生标准。

The equipment configuration is high, requiring high nitrogen purity, low dew point, high nitrogen cleanliness, no dust, sterility, no odor, and few impurities such as CO_2 , CO , H_2O and C_mH_n in the nitrogen, which meet the health standards for drug production.

- 氮气产量 Nitrogen production: 5~1000Nm³/h
- 氮气纯度 Nitrogen purity: 99.5%~99.9995%
(可配增加装置 Additional devices are available)
- 氮气压力 Nitrogen pressure: 0.1~0.6Mpa
- 氮气露点 Nitrogen dew point: -45 °C~-70°C
(常压露点 Atmospheric dew point)
- 氮气洁净度 Nitrogen cleanliness: 尘粒Dust particles 0.01um
(无异味无菌 no odor and sterile)



污水、污泥处理用气解决方案

Gas Solution For Sewage And Sludge Treatment

用气特点

Gas consumption characteristics

污水处理、污泥处理中与臭氧发生器配套，要求氧气纯度90%。

It is matched with ozone generator in sewage treatment and sludge treatment, and the oxygen purity is required to be 90%.



应用领域

APPLICATION AREA

- 1** 与臭氧发生器配套，提高臭氧生产效率。

It is matched with the ozone generator to improve the ozone production efficiency.

- 2** 富氧曝气工艺处理污水，减少污泥产生。

Oxygen enriched aeration process is used to treat sewage and reduce sludge production.

- 3** 浸氧溶解工艺处理污水，不出现泡沫，减少环境污染。

The oxygen infiltration and dissolution process can treat sewage without foam and reduce environmental pollution.

- 4** 直接用于污泥无害化处理，减少环境污染。

It is directly used for sludge harmless treatment to reduce environmental pollution.

- 氧气产量 Oxygen production: 3~1000Nm³/h
- 氧气纯度 Oxygen purity: 60%~93%
(国标非氧含量 National standard non oxygen content)
- 氧气压力 Nitrogen pressure: 0.1~0.4MPa
(可配增压装置达到更高压力 It can be equipped with supercharging device to achieve higher pressure)
- 氧气露点 Oxygen dew point: -45°C~-70°C
(常压露点 Atmospheric dew point)



富氧助燃用气解决方案

Oxygen Enriched Combustion Supporting Gas Solution

应用富氧助燃的益处

Benefits of oxygen enriched combustion support

加快燃烧速度，提高火焰温度，迅速增强热辐射；降低空气过剩系数和烟气含尘量，提高燃烧效率，使烟气中可燃物在富氧燃烧中极大的转化成热能；如采用局部富氧助燃，节能率为8-20%，如采用全富氧燃烧，节能率在25-30%。采用富氧助燃，节能环保效果非常显著，社会效益和经济效益巨大。

Accelerate the combustion speed, increase the flame temperature, and rapidly enhance the heat radiation; Reduce the excess air coefficient and the dust content of the flue gas, improve the combustion efficiency, and greatly convert the combustible in the flue gas into heat energy in the oxygen enriched combustion; If local oxygen enriched combustion is adopted, the energy saving rate is 8-20%; if full oxygen enriched combustion is adopted, the energy saving rate is 25-30%. With oxygen enriched combustion support, the energy-saving and environmental protection effect is very significant, and the social and economic benefits are huge.

膜法制氧、富氧助燃节能技术是现代燃烧技术上的新突破，膜法制氧可从空气中直接制取氧含量为28-33%富氧空气。制取量大，投资合理。

Membrane oxygen and oxygen enriched combustion and energy saving technology are new breakthroughs in modern combustion technology. Membrane oxygen can directly produce oxygen enriched air with an oxygen content of 28-33% from air. The production volume is large and the investment is reasonable.

● 富氧产量

Oxygen enriched production:
200~15000Nm³/h

● 氧气纯度

Oxygen purity:
28~33%



应用领域

APPLICATION AREA

1 各种工业锅炉：
特别适宜链条炉排锅炉、抛煤机锅炉、
煤粉锅炉、燃油燃气锅炉等。

Various industrial boilers: especially suitable for chain grate boilers, coal thrower boilers, pulverized coal boilers, oil and gas boilers, etc.

2 各种工业炉窑：
玻璃窑、加热炉、焚烧炉、冶炼炉、
陶瓷窑、水泥窑等。

Various industrial furnaces: glass kiln, heating furnace, incinerator, smelting furnace, ceramic kiln, cement kiln, etc.

氧气灌充系统解决方案

Oxygen Filling System Solution

LC 系统 SYSTEM

型号及参数

Model and parameters

LC-3	12 瓶/天 cylinder/day
LC-5	20 瓶/天 cylinder/day
LC-10	40 瓶/天 cylinder/day
LC-15	60 瓶/天 cylinder/day
LC-20	80 瓶/天 cylinder/day
LC-25	100 瓶/天 cylinder/day
LC-50	200 瓶/天 cylinder/day
LC-85	320 瓶/天 cylinder/day

设备及用气特点

Characteristics of equipment and gas consumption

- 提供93%纯度的氧气，并且直接充瓶使用，方便快捷；
Provide 93% purity oxygen, and directly fill the bottle for use, convenient and fast;
- 设备高度集成设计，全自动控制，生产的氧气符合医用氧标准。
The equipment is highly integrated design, fully automatic control, and the oxygen produced meets the medical oxygen standard.

应用领域

APPLICATION AREA

- 1** LC系统为客户提供了一个低投入、高回报的氧气使用方案。

LC system provides customers with a low investment and high return oxygen use scheme.

- 2** LC制氧系统可实现现场氧气分离和氧气充瓶同时进行，作为一个完全独立的制氧系统。

The LC oxygen generation system can realize the simultaneous on-site oxygen separation and oxygen filling, as a completely independent oxygen generation system.

- 3** LC秉承全自动，高度集成和操作简便的设计理念，可帮助用户根据实际需要生产氧气和氧气充瓶。

LC adheres to the design concept of full automation, high integration and easy operation, which can help users to produce oxygen and oxygen bottles according to actual needs.

部 分 业 绩 表 PARTIAL PERFORMANCE TABLE

序号 ON.	客户名称 Customer Name	产能 Capacity(Nm³/h)	纯度 Purity	采购时间 Purchase time	备注 Remarks
1	北京凯发东方科技有限公司 Beijing Kaifa Oriental Technology Co., Ltd	120	95%	2018	
2	江苏新裕泰华环保集团有限公司 Jiangsu Xinyu Taihua Environmental Protection Group Co., Ltd	25	93%	2018	制氧Oxygen production
3	山西玉龙化工 Shanxi Yulong chemical	10	99.99	2018	
4	江苏新裕泰华环保集团有限公司 Jiangsu Xinyu Taihua Environmental Protection Group Co., Ltd	30	93%	2018	制氧Oxygen production
5	山东爱康环保 Shandong Aikang environmental protection	160	90%	2019	制氧Oxygen production
6	北京万达星机械设备有限公司 Beijing Wanda Star Machinery Equipment Co., Ltd	220	99.9%	2020	
7	四川英凡特环保科技有限公司 Sichuan yingfante Environmental Protection Technology Co., Ltd	50	99.5%	2020	
8	亚速旺（上海）商贸有限公司 Asuwang (Shanghai) Trading Co., Ltd	20	99.99%	2020	
9	浦江思欣通科技有限公司 Pujiang Sixin Technology Co., Ltd	20	99.9%	2020	
10	山东创捷涂装 Shandong chuangjie coating	5	99%	2020	
11	河南沃博机械设备有限公司 Henan Wobo Machinery Equipment Co., Ltd	60	99.999%	2020	
12	亚速旺（上海）商贸有限公司 Asuwang (Shanghai) Trading Co., Ltd	25	99.99	2020.8	
13	安徽国祯环境修复股份有限公司 Anhui Guozhen environmental remediation Co., Ltd	5	99.9	2020	
14	福建南方制药 Fujian Nanfang pharmaceutical	150	99.5	2020	
15	艾杰仑湖南科技有限公司 Aijielun (Hunan) Technology Co., Ltd	80	99.99%	2020	
16	河南沃博 Henan Wobo	60	99.9%	2020	
17	山东创捷涂装 Shandong chuangjie coating	30	99%	2020	
18	河南沃博实业有限公司 Henan Wobo Industrial Co., Ltd	80	99.99%	2021	
19	北京公交消防技术有限公司 Beijing Bus Fire Technology Co., Ltd	50	99.9	2021	
20	山东创捷涂装 Shandong chuangjie coating	30	99%	2021	
21	河南沃博实业有限公司 Henan Wobo Industrial Co., Ltd	10	99.9%	2021	
22	西安奥能德新材料科技有限公司 Xi'an aonengde New Material Technology Co., Ltd	200	99.9%	2021	
23	北京德晟润嘉机械制造有限公司 Beijing Desheng Runjia Machinery Manufacturing Co., Ltd	400	99.9	2021	
24	唐山恒联机电装备有限责任公司 Tangshan Henglian Electromechanical Equipment Co., Ltd	2	99.99	2021	
25	河北宇天材料科技有限公司 Hebei Yutian Material Technology Co., Ltd	5	99.99	2021	5MPa
26	江苏冬泽特医食品有限公司 Jiangsu Dongze Special Medical Food Co., Ltd	30	99.99	2022	

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序号 ON.	客户名称 Customer Name	产能 Capacity(Nm ³ /h)	纯度 Purity	说明 Explain
27	广东豪美铝业有限公司 Guangdong Haomei Aluminum Industry Co., Ltd	160	99.999%	成型、降温、保护 Forming, cooling and protection
28	东莞劲捷电子有限公司 Dongguan Jinjie Electronics Co., Ltd	100	99.9%	SMT贴片波峰焊保护 SMT chip wave soldering protection
29	广西中冶建设有限公司 Guangxi MCC Construction Co., Ltd	400×2	99.5%	吹扫、保护用气 Purge and protection gas
30	青海国鑫铝业股份有限公司 Qinghai Guoxin Aluminum Co., Ltd	300	99.9995%	吹扫、保护用气 Purge and protection gas
31	东莞富印胶贴有限公司 Dongguan Fuyin adhesive tape Co., Ltd	100	99.9995%	化工原料氧起反映 Chemical raw material oxygen reaction
32	内蒙古蒙牛乳业（集团）股份有限公司 Inner Mongolia Mengniu Dairy (Group) Co., Ltd	1000	99.999%	锅炉吹扫、保护用气 Gas for boiler purging and protection
33	包头常铝铝业股份有限公司 Baotou changaluminum Aluminum Industry Co., Ltd	380×3	99.999%	吹扫、保护用气 Purge and protection gas
34	东莞富之源电子有限公司 Dongguan fuzhiyuan Electronics Co., Ltd	180	99.95%	SMT回流、波峰焊保护 SMT reflow and wave soldering protection
35	广州建莱铜业有限公司 Guangzhou jianlai Copper Industry Co., Ltd	600	99.9995%	焊接镀锌、镀银保护 Welding zinc plating and silver plating protection
36	东南亚集团珠海南亚厨具用品有限公司 Southeast Asia Group Zhuhai South Asia kitchenware Co., Ltd	160	99.9%	不锈钢切割保护用气 Stainless steel cutting protection gas
37	深圳大阳电工材料有限公司 Shenzhen Dayang electrical materials Co., Ltd	1000	99.999%	吹扫镀锌、镀银保护 Purging zinc plating and silver plating protection
38	吉林亚太集团股份有限公司 Jilin Asia Pacific Group Co., Ltd	200×2	99.99%	包装用气 Packing gas
39	苏州瀚鼎机械有限公司 Suzhou handing Machinery Co., Ltd	1200×2	99.9995%	制氮机+碳载纯化 Nitrogen generator + carbon carrier purification
40	湖北美时园食品股份有限公司 Hubei meishiyuan Food Co., Ltd	60	99.99%	保鲜保护用气 Preservation gas
41	荆州市火力发电厂 Jingzhou thermal power plant	1000×2	99%	吹扫保护用气 Purge protection gas
42	东莞市普悦电子有限公司 Dongguan puyue Electronics Co., Ltd	400×2	99.99%	包装用气 Packing gas
43	东莞市雅琦饰品有限公司 Dongguan Yaqi Jewelry Co., Ltd	100	99.99%	包装用气 Packing gas
44	沙市日洁洁具有限公司 Shashi RIJIE Sanitary Ware Co., Ltd	2000	99.%	锅炉吹扫、包装用气 Gas for boiler purging and packaging
45	佛山市顺德海尔电器有限公司 Foshan Shunde Haier Electric Appliance Co., Ltd	240	99.99%	包装用气 Packing gas
46	禾昌兴业电子（深圳）有限公司 Hechang Xingye Electronics (Shenzhen) Co., Ltd	550	99.99%	回流、波峰焊保护 Reflow and wave soldering protection
47	信泰成型（深圳）有限公司 Xintai molding (Shenzhen) Co., Ltd	50	99.99%	不锈钢切割、吹扫 Stainless steel cutting and purging
48	北京同仁堂科技发展有限公司 Beijing Tongrentang Technology Development Co., Ltd	180	99.99%	热处理 Heat treatment
49	北京现代工程机械有限公司 Beijing Modern Construction Machinery Co., Ltd	180	99.99%	热处理 Heat treatment
50	北京协和医院北京协和医院 Beijing Union Medical College Hospital	30	99.00%	热处理热处理 Heat treatment
51	北京同仁医院 Beijing Tongren HospitalChangchun	200	99.99%	保护用气 Protective gas
52	长春一汽汽车股份有限公司 FAW Automobile Co., Ltd	150	99.99%	保护用气 Protective gas

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序号 ON.	客户名称 Customer Name	产能 Capacity(Nm³/h)	纯度 Purity	说明 Explain
53	康迪泰克大洋管件（长春）有限公司 ContiTech ocean pipe fittings (Changchun) Co., Ltd	240	99.99%	不锈钢、切吹、保护 Stainless steel, cutting and blowing, protection
54	SKF加维精密（平湖）有限公司 SKF Jiawei precision (Pinghu) Co., Ltd	300	99.99%	包装用气 Packing gas
55	江苏亨通电力电缆有限公司 Jiangsu Xiangtong power cable Co., Ltd	1000	99.9%	包装用气 Packing gas
56	湖南世凯医疗器具有限公司 Hunan Shikai Medical Appliance Co., Ltd	220	99.99%	不锈钢切割包装用气 Gas for stainless steel cutting and packaging
57	泉州森宇塑胶有限公司 Quanzhou Senyu Plastic Co., Ltd	80	99.99%	包装用气 Packing gas
58	精诚科技集团元松电子（苏州）有限公司 Jingcheng Technology Group Yuansong Electronics (Suzhou) Co., Ltd	300	99.99%	包装用气 Packing gas
59	华冠通讯器材（苏州）有限公司 Huaguan communication equipment (Suzhou) Co., Ltd	200	99.99%	包装用气 Packing gas
60	日扬光电科技（上海）有限公司 RIYANG Optoelectronic Technology (Shanghai) Co., Ltd	80	99.99%	包装用气 Packing gas
61	重庆市建峰集团斯托赛克有限公司 Chongqing Jianfeng group stosaice Co., Ltd	170	99.50%	包装用气 Packing gas
62	四川省仁寿县人民水泥有限公司 Sichuan Renshou County People's Cement Co., Ltd	500	99.00%	锅炉吹扫包装用气 Gas for boiler purging and packaging
63	重庆市仓兴达科技有限公司 Chongqing cangxingda Technology Co., Ltd	200	99.90%	保护用气 Protective gas
64	四川越溪水泥有限公司 Sichuan Yuexi Cement Co., Ltd	200	99.00%	吹扫、保护用气 Purge and protection gas
65	重庆市涪陵榨菜集团有限公司 Chongqing Fuling mustard Group Co., Ltd	250	99.90%	热处理 Heat treatment
66	太极集团重庆涪陵制药厂有限公司 Taiji Group Chongqing Fuling Pharmaceutical Factory Co., Ltd	500	99.90%	热处理 Heat treatment
67	中国意尔康鞋业集团有限公司 China Yierkang shoes Group Co., Ltd	340	99.90%	热处理 Heat treatment
68	夏梦意杰服饰有限公司 Xia mengyijie Clothing Co., Ltd	30	99.90%	保护用气 Protective gas
69	温州宇宙集团有限公司 Wenzhou cosmos Group Co., Ltd	30	99.50%	保护用气 Protective gas
70	昆山大唐电子有限公司 Kunshan Datang Electronics Co., Ltd	30	99.95%	保护用气 Protective gas
71	依利安达电子（昆山）有限公司 Yilianda Electronics (Kunshan) Co., Ltd	200	99.90%	保护用气 Protective gas
72	瀚宇博德科技有限公司 Hanyu bode Technology Co., Ltd	30	99.50%	炉子保护用气 Furnace protection gas
73	侨宏仪器（南康）有限公司 Qiaohong instrument (Nankang) Co., Ltd	40	99.50%	焊接保护用气 Gas for welding protection
74	国电精密电子（全南）有限公司 Guodian precision electronics (QUANNAN) Co., Ltd	30	99.50%	焊接保护用气 Gas for welding protection
75	更新科技（全南）有限公司 Update technology (QUANNAN) Co., Ltd	30	99.50%	不锈钢焊接保护 Stainless steel welding protection
76	江西上高裕盛工业有限公司 Jiangxi Shangao Yusheng Industrial Co., Ltd	40	99.90%	焊接保护用气 Gas for welding protection
77	江西宝宝仔饲料有限公司 Jiangxi baobaozai Feed Co., Ltd	50×2	99.90%	检测用气 Test gas
78	大余逸泉矿泉水有限公司 Dayu Yiquan mineral water Co., Ltd	300	99.90%	检测、保护用气 Gas for detection and protection
79	昱辉阳光能源（嘉兴）有限公司 Yuhui sunshine energy (Jiaxing) Co., Ltd	90	99.90%	检测用气 Test gas
80	韶关永久电剪刀 Shaoguan permanent electric scissors	100	99.99%	成型吹扫、保护用气 Gas for molding purging and protection
81	新疆伊犁钢铁 Xinjiang Yili iron and Steel Co., Ltd	2000	99.9%	保护用气 Protective gas
82	宁夏钢铁集团有限责任公司 Ningxia iron and Steel Group Co., Ltd	1500	99%	氮气保护 Nitrogen protection
83	山西建龙钢铁 Shanxi Jianlong iron and steel	1200	99.5%	保护气 Protective gas

服务优势

SERVICE ADVANTAGES

1

全国设华中、华北、华南、华东、东北、西北、西南售后服务中心，实现所在地的快速响应服务。

After sales service centers in Central China, North China, South China, East China, Northeast China, Northwest China and southwest China are set up throughout the country to realize rapid response service in the locality.

2

骨干工程师均为从事本系统的售后服务超过8年，所有售后服务工程师都经过严格选拔和系统培训。

The backbone engineers have been engaged in the after-sales service of the system for more than 8 years, and all after-sales service engineers have been strictly selected and systematically trained.

3

与系统各部件供应商保持紧密合作，及时为客户提供原厂的零配件和保养材料。

Keep close cooperation with suppliers of various parts of the system, and timely provide customers with original spare parts and maintenance materials.

4

接到用户服务要求，2小时内响应，中心城市12小时内到现场服务，偏远市县到场时间不超过48小时。

Respond within 2 hours after receiving the user's service requirements, arrive at the site within 12 hours in central cities, and arrive at remote cities and counties within 48 hours.

5

全天
24小时服务。
All Day 24-hour Service.

6

可为设备加装本公司开发的Wi-Ctrl远程无线监控系统，当设备有报警信息产生时，会自动将信息发送到远程数据中心，并且会发送一封邮件到本地设备维护工程师的邮箱里，并自动电话通知，可以及时的让远程和本地共同维护设备。

The Wi-Ctrl remote wireless monitoring system developed by our company can be added to the equipment. When the equipment has alarm information, the information will be automatically sent to the remote data center, and an email will be sent to the mailbox of the local equipment maintenance engineer, and automatic telephone notification will be made, so that the remote and local equipment can be maintained together in a timely manner.

7

售后工程师均经过专业培训及考核且取得空压机、冷干机等设备的授权服务证书。

After sales engineers have received professional training and assessment and have obtained authorized service certificates for air compressors, cold dryers and other equipment.

服务内容

SERVICE CONTENT

■ 依国家三包规定及各个配件厂家承诺进行质保。

Quality assurance shall be carried out in accordance with the national "Three Guarantees" regulations and the commitments of various parts manufacturers.

■ 所售设备整机免费质保一年。

Free warranty for one year.

■ 所售设备终生负责维护保养。

The equipment sold shall be maintained for life.

■ 所售设备免费提供技术咨询服务。

Provide free technical consulting services for the equipment sold.

■ 保修期外，均以最优的价格提供日常保养及维护所需的材料配件及人工服务。

After the warranty period, we will provide materials, accessories and labor services required for daily maintenance and repair at the best price.

■ 质保期内保证产品的产气纯度、流量、压力等技术指标达到合同规定要求，期间因整机、配件质量原因产生的故障，我公司负责免费维修，免费更换配件。

During the warranty period, ensure that the product's gas purity, flow, pressure and other technical indicators meet the requirements of the contract. During the warranty period, our company is responsible for free maintenance and replacement of parts due to the quality of the whole machine and accessories.

■ 定期回访，免费培训设备使用和维护人员。

Regular return visits and free training for equipment use and maintenance personnel.



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