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GUOLIN®

臭氧医疗健康应用技术

Ozone Technology in Health&Medical Care

青岛国林健康技术有限公司

Qingdao Guolin Health Technology Co., LTD

公司简介
COMPANY INTRODUCTION

PART 01

青岛国林健康技术有限公司是青岛国林环保科技股份有限公司旗下子公司，专业从事医疗器械技术开发、环保产品、机电一体化产品、电子产品、消杀用品技术研发的技术型公司，拥有一支年富力强、勇于开拓的专业技术队伍，并与国内多所高等院校建立了长期合作关系。我们一直遵循科技为本、应用为主导，按照“科研+生产”的模式，进行医疗器械、环保产品、消杀用品、家庭健康产品的研发和生产，积极参与市场竞争。公司的主要产品有臭氧空气消毒机、电解水臭氧水机、家用制氧机、家用水处理终端等产品，广泛用于医院、学校、公共场所、养殖厂等空间杀菌、消毒、除味以及解决家庭吸氧、用水问题。

Qingdao Guolin Health Technology Co., Ltd. is a subsidiary of Qingdao Guolin Environmental Technology Co., Ltd., specializing in the technical development of medical devices; research and development of environmental protection products, mechatronics products, electronic products and disinfection products. The company has a young and pioneering professional and technical team, and has established long-term cooperative relations with many domestic colleges and universities. We have always followed the technology-based and application-oriented model of "scientific research + production", carried out the R&D and production of medical devices, environmental protection products, disinfection products and new functional materials, and actively participated in the market competition.

The company's main products include ozone air disinfection machine, electrolytic ozone water machine, household oxygen generator and other medical and disinfection products, which are widely used for sterilization and deodorization in hospitals, schools, public places, breeding plants and other spaces, as well as effective sterilization and odor removal in local spaces.

生产研究范围

国林健康技术致力于以臭氧为介质的医疗器械产品、环保产品、消杀用品、家庭健康产品技术的研究，在臭氧发生原理、方式及稳定性上进行了大量的试验，并取得了突破性成果，先后开发了多款新型臭氧发生器，臭氧产量稳定、纯度高、体积小、能量利用率高。

Qingdao Guolin Health Technology Co., Ltd. is committed to the research of medical device products, environmental protection products and disinfection products technology with ozone as the medium. A large number of experiments have been carried out on the principle, mode and stability of ozone generation, and breakthrough results have been achieved. A number of new ozone generators have been developed successively, with stable ozone output, high purity, small size and high energy utilization rate.

更专业 更先进 更安全

国林健康技术以质量求生存，以服务求发展，技术先行不断进行产品创新，力争为客户提供更专业、更先进、更安全的产品，为保护人民健康，行业兴邦，做出自己应有的贡献。

Qingdao Guolin Health Technology Co., Ltd. pursues quality and high-quality service, constantly carries out product innovation, strives to provide customers with more professional, more advanced and safer products, and makes its due contribution to protecting people's health and rejuvenating the country.

产品介绍 PRODUCT INTRODUCTION

家用制氧机 Household Oxygen Generator

PART 02

功能介绍 Function Description

家用制氧机是以医用级制氧分子筛为吸附剂，利用加压吸附，降压解吸的原理从空气中吸附和释放氮气，从而分离出氧气的自动化设备。分子筛对O_2、N_2的分离作用是基于这两种气体的动力学直径的微小差别，N_2分子在分子筛的微孔中有较快的扩散速率，O_2分子扩散速率慢。PSA制氧机正是利用分子筛的选择吸附特性，使压缩空气交替进入吸附塔来实现氮氧分离，从而连续产出高纯度的产品氧气。

Household oxygen generator is an automated equipment uses medical grade oxygen molecular sieve as adsorbent. With the use of pressure adsorption and depressure desorption principle to adsorb and release nitrogen from air, so as to separate oxygen. The separation of O_2 and N_2 by molecular sieve is based on the slight difference in the kinetic diameter of these two gases. N_2 molecule has a faster diffusion rate in the micropores of molecular sieve, while O_2 molecule has a slower diffusion rate. PSA oxygen generator is the use of molecular sieve selection adsorption characteristics, so that the compressed air alternately into the adsorption tower to achieve nitrogen and oxygen separation, so as to continuously produce high purity oxygen.

产品参数 Specification

运行模式 Operation mod	连续运行 Run continuously	软件发布版本 Software Release version	V1.0
安全类型 Security type	Ⅰ类B型 Class I Type B	防进液 Liquid proof	非防进液设备 Non-liquid-proof equipment
管理分类 Management classification	Ⅱ类 Class II	非AP/APG型设备 Non-AP /APG devices	
长*宽*高 L*W*H	430*330*650（mm）	额定电压 Rated voltage	～220V 50Hz
型号 Model	额定氧产量 Oxygen flow rate (L/min)	尺寸 Dimensions（mm）	额定功率 Rated power（W）
GL-03W	3	430*330*650	500
GL-05W	5	430*330*650	500
噪音 Noise level	≤60dB	氧气浓度 Oxygen purity	93%±3%

独特优势 Features and Advantages

1. 医用稳定供氧，氧浓度符合国家医用标准，90%-96%；
   Medical stable oxygen supply, oxygen concentration in line with the national medical standards, 90%-96%;
2. 一键启动、方便快捷；无线遥控，智能控制；
   Convenient and quick one-button start; wireless remote control and intelligent control;
3. 故障检测功能，电流过载或连线松脱停机、压缩机高温停机、压力循环故障报警停机、压缩机故障报警停机、低氧浓度报警；
   Fault detection function, current overload or loose line shutdown, compressor high temperature shutdown, pressure cycle fault alarm shutdown, compressor fault alarm shutdown, low oxygen concentration alarm;
4. 氧气多层过滤，安全可靠。
   Oxygen multi-layer filtration, safe and reliable.

产品介绍 PRODUCT INTRODUCTION

臭氧空气消毒机系列 Ozone Air Disinfector Series

电解水空气消毒机（落地式） Electrolytic Ozone Disinfector (Vertical)

产品名称 Name	电解水空气消毒机（落地式） Electrolytic Ozone Disinfector (Vertical)
产品型号 Model	GL-AD-Y-350S
产品规格 Dimension	350*350*750mm
产品净重 Weight	25kg
消杀介质 Disinfectant	臭氧气/雾 Ozone gas/ozone fog
臭氧产量 Ozone output	1.6g/h
消杀体积 Disinfection space	100m³
额定电源 Rated Voltage	~220V,50HZ
输入功率 input power	300W

臭氧空气消毒机（台式） Ozone air disinfector (table top)

产品名称 Name	臭氧空气消毒机（台式） Ozone air disinfector (table top)
产品型号 Model	GL-AD-T-155P
产品规格 Dimension	155*155*175mm
产品净重 Weight	1.5kg
消杀介质 Disinfectant	臭氧 Ozone
臭氧产量 Ozone output	1g/h
消杀体积 Disinfection space	60m³
额定电源 Rated Voltage	~220V,50HZ
输入功率 input power	80W

臭氧空气消毒机（壁挂式） Ozone air disinfector (wall mounted)

产品名称 Name	臭氧空气消毒机（壁挂式） Ozone air disinfector (wall mounted)
产品型号 Model	GL-AD-B-250P
产品规格 Dimension	250*80*35mm
产品净重 Weight	500g
消杀介质 Disinfectant	臭氧 Ozone
臭氧产量 Ozone output	50mg/h
消杀体积 Disinfection space	15m³
额定电源 Rated Voltage	~5V,50HZ
输入功率 input power	10W

臭氧空气消毒机（壁挂式） Ozone air disinfector (wall mounted)

产品名称 Name	臭氧空气消毒机（壁挂式） Ozone air disinfector (wall mounted)
产品型号 Model	GL-AD-B-350S
产品规格 Dimension	350*210*140mm
产品净重 Weight	5kg
消杀介质 Disinfectant	臭氧 Ozone
臭氧产量 Ozone output	6g/h
消杀体积 Disinfection space	200m³
额定电源 Rated Voltage	~220V,50HZ
输入功率 input power	150W

臭氧空气消毒机原理 Principle of Ozone Air Disinfector

臭氧对细菌的作用是破坏细菌的细胞壁，并扩散进细胞内，氧化分解细菌内部活性酶、核酸、蛋白质、脂质类和多糖等，使细菌的代谢和繁殖过程遭到破坏，导致细胞溶解、死亡。

The function of ozone on bacteria is to destroy the cell wall of bacteria, and spread into the cell, and oxidize and decompose the active enzymes, nucleic acids, proteins, lipids and polysaccharides in the bacteria, which is the destruction of bacterial metabolism and reproduction process, leading to cell lysis and death.

臭氧对病毒的作用首先是破坏病毒的衣体壳蛋白，然后氧化破坏病毒核糖核酸或脱氧核酸，使病毒失去寄存、繁殖能力。

The effect of ozone on viruses is to destroy the viral capsid shell protein first, and then oxidative damage of viral ribonucleic acid or deoxynucleic acid, so that the virus lost storage and reproduction ability.

臭氧可以氧化除去果蔬储藏过程中产生的乙烯，减缓果蔬的新陈代谢，同时破坏储藏环境的有机物或无机物的污浊气味，维持有利于保持蔬菜活力的环境。

Ozone can oxidize and remove the ethylene produced in the storage process of fruits and vegetables, slow down the metabolism of fruits and vegetables, and destroy the foul smell of organic or inorganic substances in the storage environment, maintaining an environment conducive to maintaining the vitality of vegetables.

独特优势 Unique advantages

PART 03

1. 高效广谱，臭氧可杀灭细菌繁殖体、芽孢、甲乙型肝炎病毒、真菌、自然菌、大肠杆菌、白色葡萄球菌等多种病毒，还可以破坏肉毒杆菌和毒素，同时还具有很强的除霉、除腥、除臭等异味。

   High efficiency and broad spectrum, ozone can kill bacterial reproduction, spores, A/B hepatitis virus, fungi, natural bacteria, escherichia coli, staphylococcus albicans and other viruses, but also can destroy Clostridium botulinum and toxin, but also has a strong ability of removing mildew, fishy smell, foul smell and other odors.

2. 绿色环保，臭氧消毒后自然还原为氧气，无其他消毒方式产生的二次污染问题。

   After disinfection, ozone will natural reduced to oxygen which is green and eco-friendly, compared with other disinfection methods, it has no secondary pollution problems.

3. 消毒无死角，臭氧可通过气体的弥散到达各个角落，对不规则物体的表面和内腔也可达到满意的消毒杀菌效果。

   Disinfection has no dead angle, ozone can reach every corner through the dispersion of gas, and can also achieve satisfactory disinfection effect on the surface and inner cavity of irregular objects.

4. 经济节能，相对于易耗消毒剂经济，相同杀菌消毒效果较紫外灯管的耗电量低，有效使用寿命较紫外灯管寿命长。

   Economic and energy saving, more economical than consumable disinfectants. Ozone disinfector has lower power consumption than UV lamp based on same sterilization and disinfection effect, and effective service life is longer than UV lamp.

空气现场消毒试验 检测报告

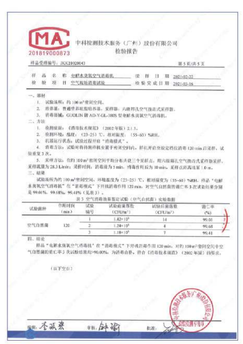
Disinfection Test Report

中科检测技术服务（广州）股份有限公司

检 验 报 告 正本

中科检测技术服务（广州）股份有限公司

检验报告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检验报告

GUOLIN®

使用场景 Application

PART 04

厨房 kitchen

养殖厂 breeding farm

食 堂 canteen

高危区域 high risk area

病 房 inpatient ward

实验室 laboratory

更衣室 locker room

手术室 operation room

会议室 conference room

储藏室 storeroom

办公室 office

公共场所 public place