鸿基洁净®

HJCLEAN TECH

永远向无菌超净环境极限挑战

Constantly pushing the limits of aseptic and ultra-clean environments.

# 苏州鸿基洁净科技股份有限公司

SUZHOU HJCLEAN TECH CO., LTD

鸿基洁净®
HJCLEAN TECH

# 公司简介 Company profile

**苏州鸿基洁净科技股份有限公司** 2004 年成立于中国净化之乡 - 江苏省苏州市。公司总部坐落于苏州工业园区，建立苏州，靖江生产基地； 全国设有武汉、成都、西安、济南、沈阳分公司，公司一直专注于无菌超净设备、检测仪器和洁净工程的研发、生产、销售和定制服务，公司拥有 50 多项专利 ISO9001 质量体系认证、产品 CE 认证、GMP 认证等公司是中国洁净室标准委员会委员单位，成立了江苏省工程技术研究中心，我们在无尘室领域处于领先地位。

公司产品包括悬浮粒子在线监测系统、激光尘埃粒子计数器、浮游菌采样器、在线检测浮游生物、风量仪、气溶胶发生器和光度计、 手套检漏仪、 称量室、 无菌隔离器、 负压隔离器、 正负压舱、 VHP 灭菌传递窗、VHPS 灭菌器、BIBO 袋进袋出过滤系统、雾淋室、层流罩、洁净移动车、洁净工作台、生物安全柜、移动净化器、空气净化消毒机、干燥箱、洁净衣柜、FFU、层流传递窗、普通传递窗、风淋室等产品，从成立至今已远销世界各国。

公司拥有一支专业的研发、设计和经验丰富的技术团队，配备先进的生产设备和检测仪器。此外，公司还引进了先进的管理模式，使我们有足够的信心向用户保证： 我们提供给用户的产品是高品质、性价比优越的。公司秉承客户至上、技术领先、服务至上、开拓进取的宗旨，竭诚为国内外企业服务。

**SUZHOU HJCLEAN TECH CO., LTD** was established in 2004 in Suzhou, Jiangsu Province, The company's headquarters is located in Suzhou Industrial Park, and production bases have been established in Suzhou and Jingjiang. Branches are set up in Wuhan, Chengdu, Xi'an, Jinan and Shenyang across the country,The company has been focusing on the research, development, production, sales and customized services of aseptic ultra-clean equipment, testing instruments and cleanroom engineering. It mainly produce equipments and instruments of clean room deals in business of clean room projects for pharmaceutical factory, laboratory, medical organization etc...

The company has more than 50 patents products, ISO9001 certification and CE certification. The company is a member of China clean room association and is one of Jiangsu Engineering Technology Research Center. We are in a leading position in the field of clean room.

The company's products including sterility isolator, negative pressure isolator ,vhp pass box,vhp generator, atomized sterilizer , bag in bag out filter system , suspended particle online monitoring system, airborne particle counter, air sampler, airborne bacterial counter, air flow capture hood, aerosol generator and photometer, glove integrity tester, dispensing booth, laminar air flow hood, purified cart trolley, clean bench , biosafety cabinet, static pass box, dynamic pass box, air shower etc have been sold to countries around the world from the establishment to the present.

The company boasts a professional team comprising R&D specialists, design engineers, and seasoned technicians, supported by state-of-the-art testing equipment and precision manufacturing systems. With lean management systems aligned with ISO standards, we deliver products that excel in both premium quality and exceptional cost-effectiveness.

Guided by our core tenets of Customer-First Philosophy, Technological Leadership, Service Excellence, and Pioneering Innovation, we are dedicated to delivering integrity-driven partnerships for globally benchmarked enterprises.


办公地址：苏州市工业园区唯新路 99 号
服务热线：400-6555-379
联系邮箱 : market@hjclean.com
网址 : https://www.hj-cleanroom.com/

Office Address: 4th Floor, West Side, Building 4, No. 99, Weixin Road, Suzhou Industrial Park.
Service Hotline: 400-6555-379
Contact Email: market@hjclean.com
Website: https://www.hj-cleanroom.com/

靖江生产基地：
地址：江苏省泰州市靖江市智能装备产业园

JingJiang Production Base:
Address: Intelligent Equipment Industrial Park, Jingjiang City, Taizhou City, Jiangsu Province.




## 生产基地
**Production Base**



## 生产车间实景
**Plant Interior View**

鸿基洁净
HJCLEAN TECH

# 企业文化 Enterprise Culture

## 企业发展历程 (2004年-至今)
## Development Course of Enterprises

**2004** 公司成立 Company established

**2010** 荣获国家高新技术企业证书; 全面推广悬浮粒子浮游菌在线监测系统的应用
Awarded the National High-tech Enterprise Certificate;
fully promote the application of online monitoring particle counter system.

**2012** 自主研发生产鸿基品牌负压称量罩， 使用于苏州惠氏制药公司， 获ISO9001质量认证体系
We independently develop and produce Hjclean Dispensing Booth, which are applied at Wyeth Suzhou Pharmaceutical Co., Ltd.
The company has obtained ISO9001 quality management system certification.

**2014** 自主研发生产鸿基品牌新型隔离器， 使用于国药集团威奇达药业
Independently developed and manufactured new-type isolators under the Hjclean, which are put into use by Sinopharm Weikeda Pharmaceutical.

**2015** 苏州市无菌清洁设备工程技术研究中心;全面推广应用灭菌隔离设备
Suzhou Engineering Technology Research Center for Aseptic and Cleaning Equipment;
fully promote and apply sterilization and isolation equipment.

**2016** 实施股份制改革
Implement the joint-stock system reform

**2017** 2017年6月新三板挂牌
Listed on the NEEQ in June 2017

**2019** 荣获专精特新“小巨人”企业荣誉称号
Won the honorary title of "Little Giant" Enterprise specializing in precision.

**2020** 公司批量生产隔离消毒设备，并多次及时捐赠给疫区
The company mass-produces isolation and disinfection equipment and has donated supplies to epidemic-stricken areas on multiple occasions in a timely manner.

**2021** 建立江苏省智能无菌工程技术研究中心
Established Jiangsu Intelligent Aseptic Engineering Technology Research Center.

**2024** 公司扩大规模增设靖江工厂
The company has expanded its scale and set up a new plant in Jingjiang.

**2025** 新增10多项专利
Added more than ten new patents

## ▶ 愿景 Vision

鸿雁齐飞　基业共享
"Work with one heart and share in the prosperity"

## ▶ 使命 Mission

超净环境　净由心造
"Ultra-Clean Environments, Forged by Pure Commitment"

## ▶ 精神 spirit

客户第一　同心协力　主动积极　持续学习
"Customer Centricity, Collaborative Spirit, Proactive Drive, Lifelong Learning"

# 世界500强合作单位

## Cooperating units of Fortune Global 500.

是他们首先选择了我 —— 鸿基洁净

It was they who chose me first - HJCLEAN.

威奇达

国药集团 SINOPHARM

国药控股 SINOPHARM

上海生物制品研究所 Shanghai Institute of Biological Products

鲁抗

Wyeth 惠氏

我武生物 WOLWOPHARMA

扬子江药业集团 Yangtze River Pharmaceutical Group

華潤医药 CR PHARMA

TRUKING

东曜药业 TOT BIOPHARM

Roche

PrimeGene a biotechne brand

Ihwa 恩华

恒瑞

齐鲁制药 QILU PHARMACEUTICAL

NOVARTIS

APELOA 普洛

康恩贝 CONBA

华海药业 HUAHAI PHARMACEUTICAL

聯邦制藥 UNITED LABORATORIES

红日药业

Jemincare 济民可信

修正药业

鸿基洁净®
HJCLEAN TECH

# 创新 Innovation

## 鸿基洁净科技，行业标杆
HJCLEAN, Benchmark of the Industry

科技引领净化新时代，创新驱动洁净新未来。拥抱创新，塑造差异化竞争优势，我们不断探索只为给您更优质的服务。

Technology leads the new era of purification, and innovation drives a new future of cleanliness. Embrace innovation and shape differentiated competitive advantages.
We are constantly exploring only to provide you with better service.

鸿基洁净
HJCLEAN TECH

# 产品服务行业领域 Service Industry




证书号第1718882号

实用新型专利证书

实用新型名称：一种洁净工作室

发 明 人：曾世清

专 利 号：ZL 2010 2 0245042.9

专利申请日：2010年07月01日

专 利 权 人：苏州工业园区鸿基洁净科技有限公司

授权公告日：2011年03月09日

本实用新型经过本局依照中华人民共和国专利法进行初步审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

本专利的专利权期限为十年，自申请日起算。专利权人应当依照专利法及其实施细则规定缴纳年费。本专利的年费应当在每年07月01日前缴纳。未按照规定缴纳年费的，专利权自应当缴纳年费期满之日起终止。

专利证书记载专利权登记时的法律状况。专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。

局长 田力普

2011年03月09日

第1页（共1页）


证书号第3301935号

实用新型专利证书

实用新型名称：微生物消毒装置

发 明 人：曾世清

专 利 号：ZL 2013 2 0372742.8

专利申请日：2013年06月26日

专 利 权 人：苏州工业园区鸿基洁净科技有限公司

授权公告日：2013年12月11日

本实用新型经过本局依照中华人民共和国专利法进行初步审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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局长 田力普

2013年12月11日

第1页（共1页）


证书号第6149750号

实用新型专利证书

实用新型名称：一种过氧化氢汽化装置

发 明 人：曾世清

专 利 号：ZL 2016 2 0294911.4

专利申请日：2016年04月11日

专 利 权 人：苏州工业园区鸿基洁净科技有限公司

授权公告日：2017年05月17日

本实用新型经过本局依照中华人民共和国专利法进行初步审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

本专利的专利权期限为十年，自申请日起算。专利权人应当依照专利法及其实施细则规定缴纳年费。本专利的年费应当在每年04月11日前缴纳。未按照规定缴纳年费的，专利权自应当缴纳年费期满之日起终止。

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局长
申长雨

2017年05月17日

第1页（共1页）


证书号第5819904号

实用新型专利证书

实用新型名称：一种VHP等离子气溶胶发生装置

发 明 人：曾世清

专 利 号：ZL 2016 2 0538698.7

专利申请日：2016年06月06日

专 利 权 人：苏州工业园区鸿基洁净科技有限公司

授权公告日：2016年12月28日

本实用新型经过本局依照中华人民共和国专利法进行初步审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

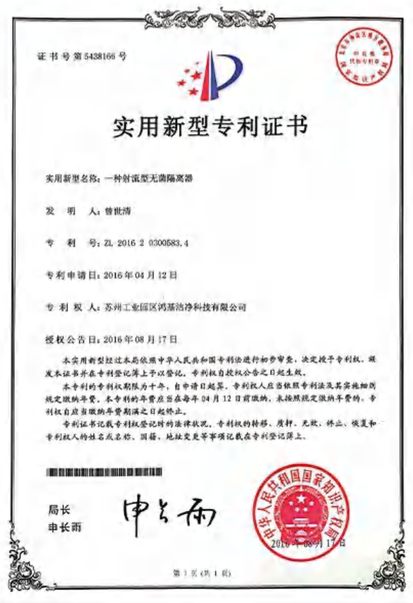
本专利的专利权期限为十年，自申请日起算。专利权人应当依照专利法及其实施细则规定缴纳年费。本专利的年费应当在每年06月06日前缴纳。未按照规定缴纳年费的，专利权自应当缴纳年费期满之日起终止。

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局长
申长雨

2016年12月28日

第1页（共1页）


证书号第5438166号

实用新型专利证书

实用新型名称：一种射流型无菌隔离器

发 明 人：曾世清

专 利 号：ZL 2016 2 0300583.4

专利申请日：2016年04月12日

专 利 权 人：苏州工业园区鸿基洁净科技有限公司

授权公告日：2016年08月17日

本实用新型经过本局依照中华人民共和国专利法进行初步审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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局长
申长雨

2016年08月17日

第1页（共1页）

一种洁净工作室，微生物消毒装置，一种过氧化氢汽化装置，一种VHP等离子气溶胶发生装置，一种射流型无菌隔离器
尘埃粒子计数器，在线监测系统，一种手套捡漏装置，尘埃粒子计数器变送器，一种浮游菌采样头

A clean studio, a microbial disinfection device, a hydrogen peroxide vaporization device, a VHP (Vaporized Hydrogen Peroxide) plasma aerosol generator, a jet - type aseptic isolator.

Dust particle counter, online monitoring system, a glove leak detection device, dust particle counter transmitter, a floating bacteria sampling head.


证书号第1718882号

实用新型专利证书

局长 田力普

2011年03月09日

第1页（共1页）


证书号第3317811号

实用新型专利证书

局长 田力普

2013年12月18日

第1页（共1页）


证书号第2374425号

实用新型专利证书

局长 田力普

2012年08月29日

第1页（共1页）


证书号第1430621号

实用新型专利证书

局长 田力普

2012年08月29日

第1页（共1页）


证书号第2374470号

实用新型专利证书

局长 田力普

2012年08月29日

第1页（共1页）


高新技术企业
证书

企业名称：苏州鸿基洁净科技股份有限公司

证书编号：GR202532015776

发证时间：2025 年 12 月 19 日

有 效 期：三 年

批准机关：


No.20231029

证 书

苏州鸿基洁净科技股份有限公司：

你单位被认定为2023年度江苏省专精特新中小企业，有效期为2023年至2026年。

特发此证。

江苏省工业和信息化厅

二〇二三年十二月

# 资质证书
## Qualification certificate

- 国家高新技术企业
  National High - tech Enterprise
- 专精特新小巨人企业
  Specialized and Sophisticated "Little Giant" Enterprises
- 消毒产品生产企业卫生许可证
  Sanitation License for Disinfectant Product Manufacturers
- 安全生产许可证
  Work Safety Production License


消毒产品生产企业卫生许可证

（苏）卫消证字（2018 ）第3205-0019 号

单位名称：苏州鸿基洁净科技股份有限公司

法定代表人（负责人）：曾爱国

注册地址：苏州工业园区娄葑创投工业坊18号厂房

生产地址：苏州工业园区娄葑创投工业坊18号厂房一楼

生产方式：生产

生产项目：消毒器械

生产类别：臭氧消毒柜、静电空气消毒机、其他的消毒器械（消毒灭菌因子：过氧化氢）

有效期限：2022 年 05 月 27 日至 2026 年 05 月 26 日

注：本许可证只对许可批准时的生产条件负责，不是对企业所生产产品的许可，不代表对企业生产产品卫生质量的认可。应在卫生许可证有效期满前30个工作日之前提出延续申请。

江苏省卫生健康委员会

批准日期：二〇二二年 五 月 十七 日（延续）


统一社会信用代码：91320594759657251W

安全生产许可证

编号：（苏）JZ安许证字[2017]901275

企 业 名 称：苏州鸿基洁净科技股份有限公司

法 定 代 表 人：曾爱国

单 位 地 址：苏州工业园区娄葑创投工业坊18号厂房（该地址不得从事零售）

经 济 类 型：股份有限公司（非上市、自然人投资或控股）

许 可 范 围：建筑施工

有 效 期：2024年03月15日 至 2027年04月19日

发证机关：江苏省住房和城乡建设厅

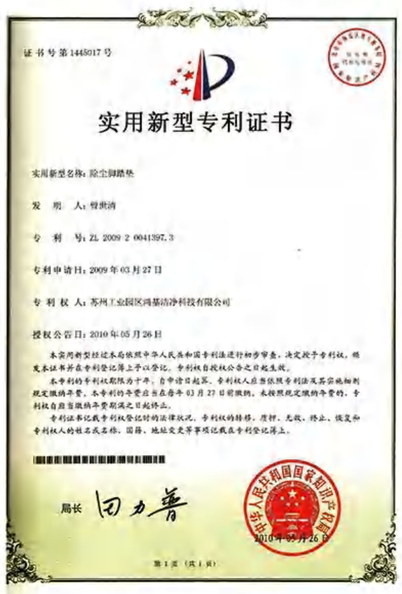
发证日期：2024 年 03 月 [illegible] 日













一种洁净转运车，环境质量指示仪，一种大流量尘埃粒子计数器的光电传感器，除尘脚踏垫，表面粒子计数器
洁净室综合参数采集系统软件，手持式空气粒子计数器系统软件，浮游菌采样器系统软件，悬浮粒子在线检测软件

A clean transfer vehicle, an environmental quality indicator, a photoelectric sensor for a large - flow dust particle counter, a dust - removing foot mat, a surface particle counter.

Software for Cleanroom Comprehensive Parameter Acquisition System, Software for Handheld Air Particle Counter System Software for Floating Bacteria Sampler System, Online Suspended Particle Detection Software.



















## 资质证书
## Qualification certificate

- 高新技术产品认定
  Identification of High - tech Products
- 苏州市洁净产业协会会员单位
  Member unit of Suzhou Clean Industry Association
- 建筑施工企业安全生产许可证
  Work Safety License for Construction Enterprises
- 环境管理体系认证证书
  Environmental Management System Certification Certificate
- 质量管理体系认证证书
  Quality Management System Certification Certificate
- 职业健康管理体系认证证书
  Occupational Health and Safety
  Management System Certification Certificate












鸿基洁净
HJCLEAN TECH

全国服务热线(TEL): 4006-555-379
National Service Hotline (TEL):4006-555-379
E-mail:market@hjclean.com.

# CONTENTS 目录

## 环境检测仪器
Environmental testing instruments

悬浮粒子浮游菌在线监测系统 01
Online particle counter monitoring system

Y09系列激光尘埃粒子计数器 05
Y09-DS series airborne particle counter
Y09-3016H airborne particle counter

Y09系列组合套件仪器箱 14
(压缩空气扩散器，气流流型检测仪)
Y09 series combination kit instrument case;
(Compressed air diffuser ; Airflow pattern tester)

FL-100型风量仪 15
FL-100 air capture hood

FKC系列浮游菌采样器 16
FKC series biological air sampler

AG系列气溶胶发生器 18
AG series aerosol generator

DP30气溶胶光度计 20
DP30 aerosol photometer

PM2510T粉尘检测仪 22
PM2510T dust detector

BPC-2型激光在线浮游菌检测仪 23
BPC-2 laser airborne bacterial counter

## 无菌隔离设备
Aseptic Isolator Equipment

VHPB灭菌传递舱 24
VHP sterilizer pass box

细胞制备隔离器 26
Cell Processing Isolator

STI系列无菌检查隔离器 28
STI series sterile test isolator

无菌分装隔离系统 30
Sterile subpackage isolation system

VHPS系列过氧化氢灭菌器 32
VHPS Series Hydrogen Peroxide Sterilizer

AD-15雾化消毒机 34
AD-15 atomizing disinfection machine

手套完整性测试仪 35
Glove integrity tester

## 生物防护设备
Biosafety Equipment

ISLT系列负压隔离器 39
ISLT series negative pressure isolator

BIBO袋进袋出过滤器 41
BIBO bag in bag out filter

BSPB系列生物安全传递舱 42
BSPB series biological safety pass box

生物安全充气密封门 44
Biosecurity Inflatable Sealed Door

负压称量罩 45
Dispensing/Sampling Booth

生物安全柜(A2/B2型) 47
Biological safety cabinet(A2/B2)

雾淋室 49
MIS series mist shower

手套箱 51
GLB series glove box

## 空气净化设备
Air Purification Equipment

AS系列风淋室 52
AS series air shower

洁净层流罩 54
Clean laminar air flow hood

超净工作台 56
HS series laminar air flow cabinet，VS series laminar air flow cabinet

CPB系列洁净传递窗/PB系列洁净传递窗 58
Dynamic pass box，Static pass box

洁净层流车 60
Clean Laminar Cart

排烟通风柜 61
Fume hood

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# 悬浮粒子浮游菌在线监测系统
# Online particle counter monitoring system

## 产品简介：
## PRODUCT INTRODUCTION:

在线粒子监测系统是记录生产环境中的温度、湿度、风速、压差、露点、臭氧浓度、含氧量、环境洁净度等等参数的智能化警示系统。连续的监测和记录，同时产生报表。
当监测环境中的环境参数状态超过警戒线和纠偏线，该系统能自动激发声光报警，通知相关人员进行处理，从而帮助确保所监测的关键环境中的状况处于正常状态，以保证生产的顺利进行。

Online particle counter monitoring system is used to record the presence of airborne suspended particles in key areas of the production line.
It can automatically and continuously monitor and record the particle size and quantity distribution of suspended particles in the monitored ambient air, while generating reports.
When the state of dust particles in the monitored environment exceeds the warning line and deviation correction line, the system can automatically trigger an audible and visual alarm to notify relevant personnel to handle it, thereby helping to ensure that the particle state in the monitored critical environment is in a normal state to ensure the smooth progress of production.

## 产品优势：

1.功能强大的软件系统，兼容国内外品牌的传感器，比如：lighthouse METONE、PMS……终身免费升级.
2.软件系统具有开放的数据接口，可与用户的MES/SCADA等系统无障碍握手.
3.具有完备的符合法规21CFR、part11的功能.
4.用户管理功能强大，具有超过1000个用户管理权限设置.
5.具有实时曲线数据和历史曲线数据切换功能.
6.远程监测全天候实时监测数据报表.
7.可远程进行仪器校准，快速灵活，无需拆卸返厂.
8.鸿基软件系统终身免费升级.

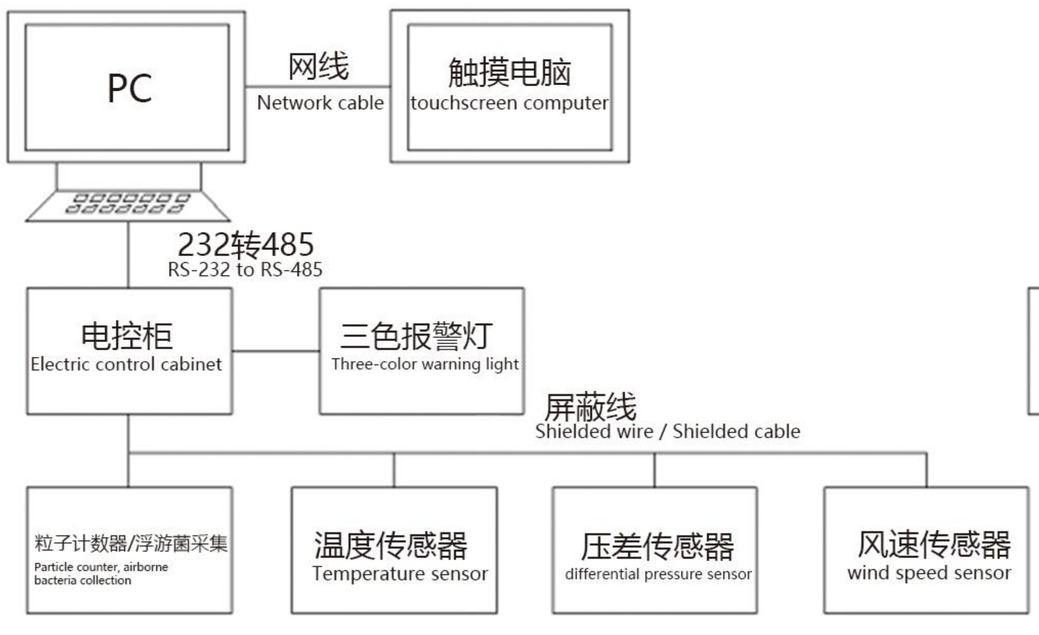



## PRODUCT ADVANTAGES:

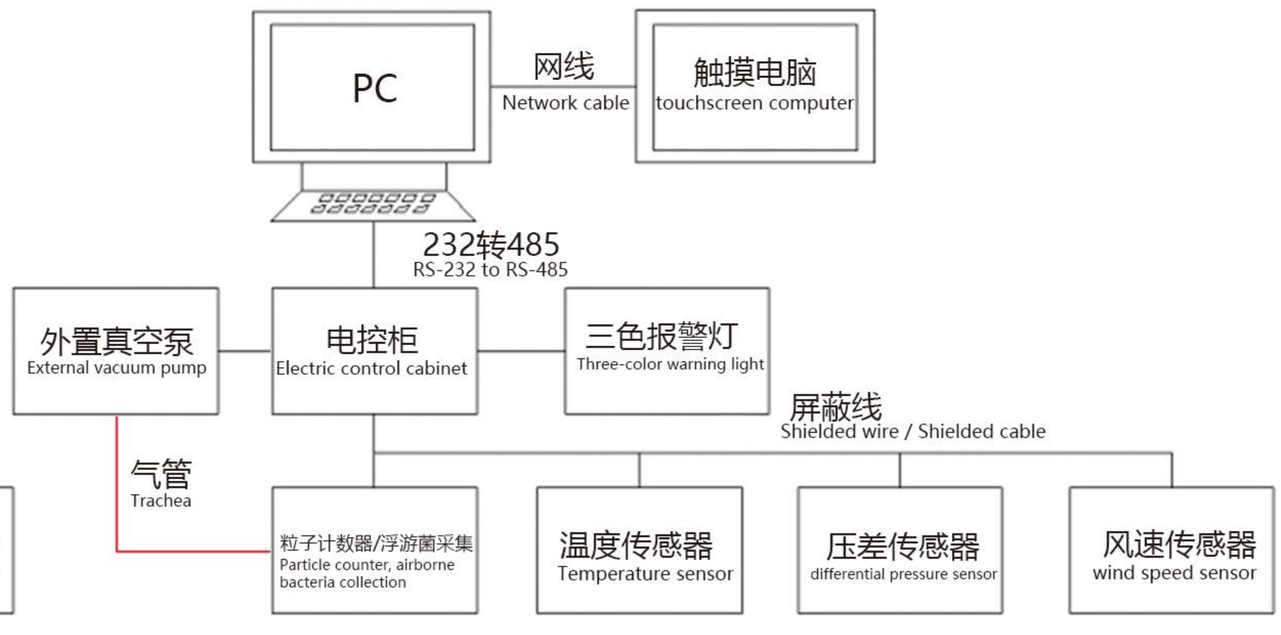
1. A powerful software system that is compatible with sensors from all over the world, such as lighthouse, METONE,PMS……free upgrade.
2.The software system has an open data interface and can be easily connected to users' MES/SCADA and other systems.
3.The software fully complies with the functions of 21CFR and part11 regulations.
4.Powerful user management function, with over 1000 user management permission settings.
5.With real-time curve, data and historical curve data functions available for selection.
6.Remote monitoring 7/24 real-time monitoring data report.
7.Remote calibration, fast and flexible, without the need for disassembly and return to the factory.
8. HJCLEAN Software System Lifetime Free Upgrade.

## 在线系统组成:
## STRUCTURE OF THE ONLINE SYSTEM:

1、自带泵系统:
Self-contained pump system




2、外置真空泵系统:
External vacuum pump system



# 悬浮粒子浮游菌在线监测系统
# Online particle counter monitoring system

## 技术参数:
## PERFORMANCE PARAMETERS:

| 型号/参数 Model / Parameter | Y09-6S | REMOTE 3016 | Y09-6S/T | Y09-SS | REMOTE 5102F | REMOTE 5102P | REMOTE 3106P |
|---|---|---|---|---|---|---|---|
| 检测粒径 Detect particle size | 0.5,5.0 μm | 0.3,0.5,1.0 2.0,5.0,10 μm | 0.5,5.0 μm | 0.5,5.0 μm | 0.5,5.0 μm | 0.5,5.0 μm | 0.3,0.5,1.0,2.0,5.0,10 μm |
| 采样流量 Sampling flow | 0.1CFM（2.83L/min） | | | 1CFM（28.3L/min） | | | |
| 外形尺寸(mm) Overall dimension (L * W * H)mm | 160*120(+气嘴25)*68 160 * 120 (+ air nozzle 25) * 68 | 214*115（+气嘴25）*50 214*115 （+air nozzle25）*50 | 160*120（+气嘴25）*68 160 * 120 (+ air nozzle 25) * 68 | Φ80*260 | 140*100（+气嘴25）*64 140 * 100 (+ air nozzle 25) * 64 | 140*100*64 | |
| 质量 Weight | 1.3kg | 1.5kg | 1.3kg | 2.2kg | 1.6kg | 2.2kg | |
| 最大功耗 Maximum power consumption | 20w | | | 8w | 8w | 50w | |
| 供电电源 Power supply | DC12V±10% | | | | 24V±10% | | |
| 采样泵 Sampling pumps | 内置泵,(品牌：托马斯) Built-in pump, (brand: Thomas) | | | 外置泵，集中采样 External pump, centralized sampling | | 内置泵 Built-in pump | |
| 检测单位 Detection unit | 颗/ft3 Pcs/ft3 | | | | | | |
| 浓度误差 Concentration error | 30% | | | | | | |
| 重复性 Repeatability | ≦10% | | | | | | |
| 测量精度 Measurement accuracy | ±10% | | | | | | |
| 自净时间 Self-cleaning time | ≤10 min | | | | | | |
| 输出方式 Output mode | RS485 | | | | | | |
| 光源及寿命 Light source and life | 半导体激光器，寿命大于30000h Semiconductor laser, life greater than 30000h | | | | | | |
| 使用环境条件 Environment | 温度：10--30℃,湿度：20—75%；大气压力：86kPa—106kPa Temperature: 10--30°C, humidity: 20-75%; Atmospheric pressure: 86kPa-106kPa | | | | | | |

## 在线尘埃粒子计数器:

在线尘埃粒子计数器是测量洁净空气环境中单位体积空气内所含粉尘颗粒大小和数量的在线检测在线粒子计数器。
本在线粒子计数器有多种型号(有小流量、大流量,有自带泵、外置泵,有 2 个粒径通道、6 个粒径通道)
采用了国际新型的探测空气中尘埃颗粒浓度的传感器,是集光学和激光技术、电子技术、计算机技术、精密机械、空气动力学等学科于一体的高科技产品,具有测量精度高、检测合理、性能稳定、功能多、造型独特、体积小重量轻、安装简便等特点,主要用于洁净环境洁净度在线监测、环境空气尘埃粒子变化趋势评判、环境空气质量和扬尘的在线监测和预警、报警,等等。
本变送器按照国际通用标准(ISO14644、EU-GMP)设计检测粒径档别和检测采样方式,其性能指标符合国家标准和国家计量检定规程。被广泛应用于制药、微电子、光学、医药卫生、生物制品、大气分析、航空航天等部门的环境在线监测。

## ONLINE AIRBORNE PARTICLE COUNTER:

The online airborne particle counter is a system that measures the size and quantity of airborne particles contained in a unit volume of air in a clean air environment.
This online particle counter has multiple models (Y09-SS, Y09-6S, REMOTE3016, REMOTE5102, REMOTE5102P), Adopting a new international sensor for detecting the concentration of airborne particles in the air, it is a high-tech product integrating optics and laser technology, electronic technology, computer technology, precision machinery, aerodynamics, and other disciplines.
It is characterized by high measurement accuracy, reasonable detection, stable performance, multiple functions, unique modeling, small size, light weight, and easy installation, It is mainly used for online monitoring of cleanliness in clean environments, evaluating the change trend of ambient air dust particles, online monitoring, early warning, and alarming of ambient air quality and fugitive dust, etc...
This transmitter is designed to detect particle size classes and sampling methods in accordance with international standards (ISO14644, EU-GMP), and its performance indicators comply with national standards and national metrological verification regulations, It is widely used in online environmental monitoring in pharmaceutical, microelectronics, optics, medicine and health, biological products, atmospheric analysis, aerospace, and other departments.

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# 悬浮粒子浮游菌在线监测系统
# Online particle counter monitoring system

## 在线检测系统软件：

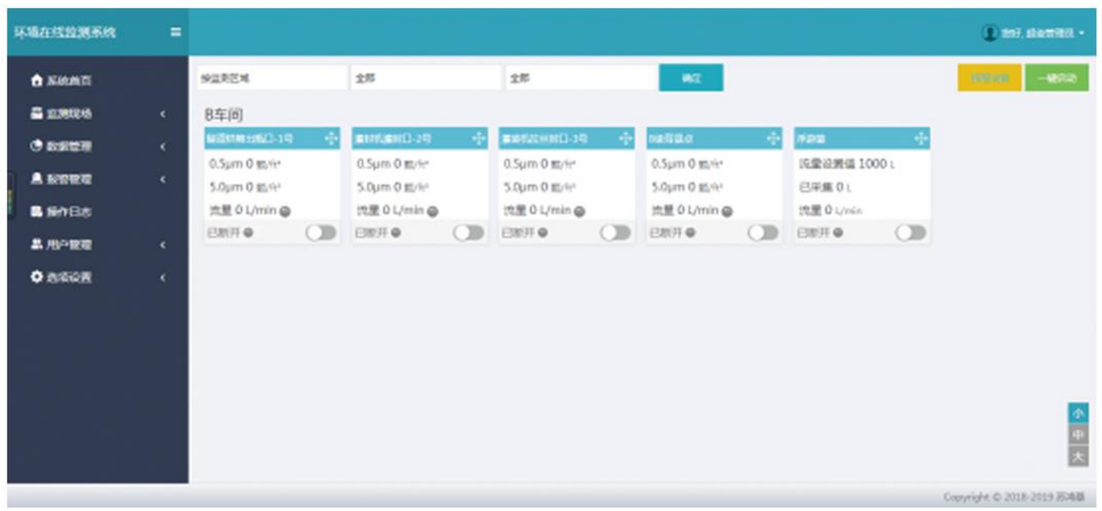
1、开放型的架构；
2、模块化，可扩展；
3、实时数据显示，图形、表格、数据状态、平面图显示；
4、历史数据查询；
5、无限数据存储容量；
6、各类数据输出；
7、自动报警；
8、自动出报告；
9、系统安全性登入；
10、符合CFR 211 PART 11电子签名相关要求。

## ONLINE DETECTION SYSTEM SOFTWARE:

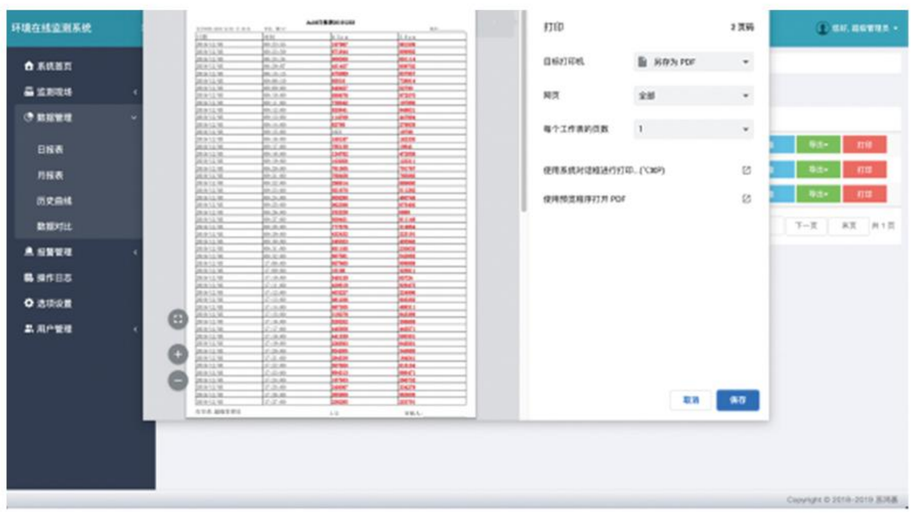
1. Open architecture.
2. Modular and extensible.
3. Real-time data display, including graphics, tables, data status and plan views.
4. Historical data query.
5. Unlimited data storage capacity.
6. Various data output.
7. Automatic alarm.
8. Automatic report generation.
9. System security login.
10. Comply with the relevant requirements for electronic signatures in CFR 211 PART 11.



软件主界面（平面布局图）
The main interface of the software (layout plan)



软件主界面（点位信息）
The main interface of the software (point information)



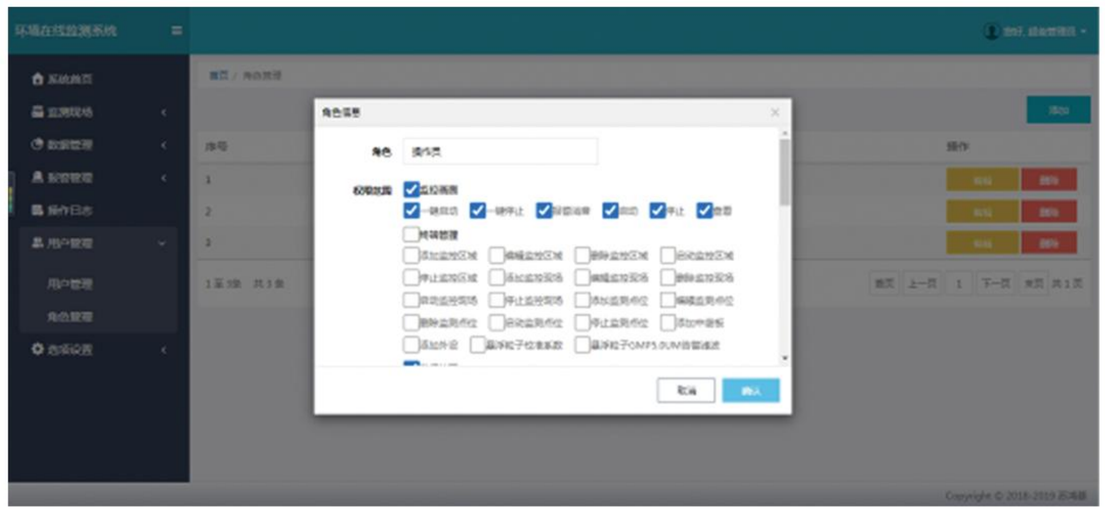
数据报表界面
Data report interface



数据图表界面
Data chart interface



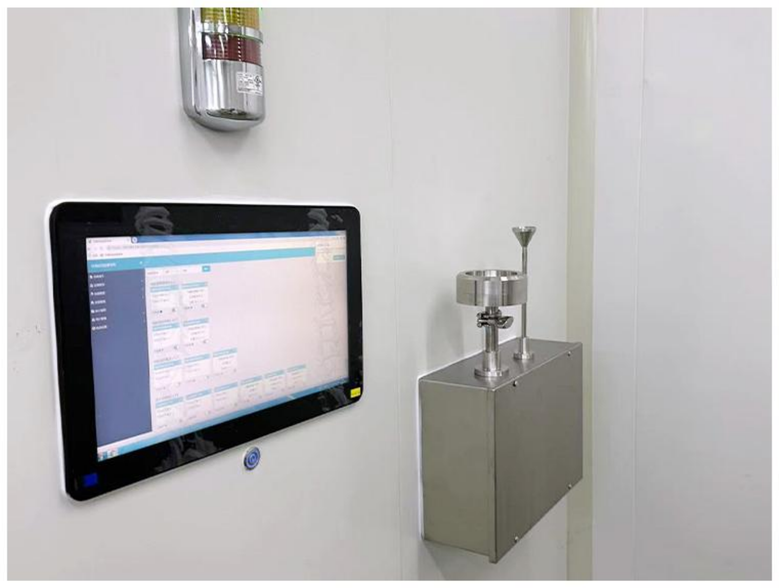
多点位数据对比分析图
Multi-point data comparison and analysis chart



用户权限分配界面
User permission assignment interface

# 悬浮粒子浮游菌在线监测系统
# Online particle counter monitoring system

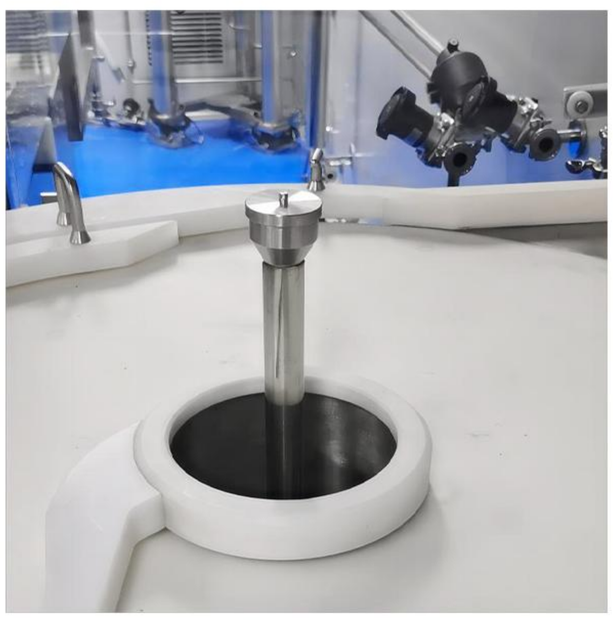
## 客户案例:
## CUSTOMER CASES :











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# Y09系列激光尘埃粒子计数器
# Y09-DS series airborne particle counter

## 产品简介:
## PRODUCT INTRODUCTION:

激光尘埃粒子计数器用于测量和分析洁净环境中单位体积空气内的尘埃粒子大小及数量,依据标准判定洁净环境洁净度等级的检测仪器。广泛应用于医药卫生、光学、化学、食品、化妆品、电子、生物制品、航空航天等企业的洁净车间检测。

Airborne particle counter is a detection instrument used to measure and analyze the size and quantity of dust particles per unit volume of air in clean environments, and to determine the cleanliness level of clean environments based on standards. Widely used for clean room testing in enterprises such as medicine and health, optics, chemistry, food, cosmetics, electronics, biological products, aerospace, etc.


Y09-316DS


Y09-516DS


Y09-3106H


Y09-5106DS


Y09-3056DS

## 型号说明:
## MODEL DESCRIPTION:

Y09 — 3 1 6 DS

- DS: 针式打印机；不锈钢 Dot matrix printing,stainless steel.
- 6: 粒径通道数 Number of particle size channels.
- 1: 采样流量(Sampling flow rate)： 01:0.1CFM=2.83L/min, 1: 1CFM=28.3L/min,05: 50L/min,10:100L/min
- 3: 最小检测粒径1: 0.1μm,3: 0.3μm,5: 0.5μm Minimum detectable particle size: 0.1μm for Channel 1, 0.3μm for Channel 3, and 0.5μm for Channel 5.
- Y09: 尘埃粒子计数器型号系列 Airborne particle counter model series.

## 工作原理:

空气中的微粒在光的照射下会发生散射,这种现象叫光散射。光散射和微粒大小,光波波长,微粒折射率及微粒对光吸收特性等因素有关。但是就散射光强度和微粒大小而言，尘埃粒子计数器有一个基本规律，就是微粒散射光的强度随微粒的表面积增加而增大。这样只要测定散射光的强度就可推知微粒的大小，就是光散射式粒子计数器的基本原理。

## WORKING PRINCIPLE:

Particles in the air will scatter when irradiated by light, and this phenomenon is called light scattering. Light scattering is related to factors such as particle size, light wave wavelength, particle refractive index and particle light absorption characteristics. However, in terms of the intensity of scattered light and particle size, there is a basic rule for dust particle counters. That is, the intensity of light scattered by particles increases as the surface area of the particles increases. In this way, as long as the intensity of the scattered light is measured, the size of the particles can be inferred, which is the basic principle of the light scattering particle counter.









# Y09-316DS激光尘埃粒子计数器
# Y09-316DS airborne particle counter

发明专利：ZL201010223403.4　实用新型专利：ZL200920041399.2　ZL201020254384.7
invention patent: ZL201010223403.4　utility model patent：ZL200920041399.2　ZL201020254384.7

## 技术特点：
## TECHNICAL FEATURES:

- 触摸屏控制系统
  Touch screen control system
- $m^3/ft^3$ 单位选择
  $M^3/ft^3$ unit selection
- 13000 组采样数据存储
  13,000 sampling data storage
- ISO/GMP/209E 标准可选
  ISO/GMP/209E standard optional
- 三级密码管理权限
  Three-level password management authority
- USB 导出和 实时打印
  USB export and real-time printing
- 计数报告符合 GMP/ ISO14644/209EISO21501-4
  Count report in accordance with GMP/ISO14644/209EISO21501-4




## 性能参数：
## PERFORMANCE PARAMETERS:

| | |
|---|---|
| 采样流量<br>sampling flow | 28.3L/min |
| 粒径通道<br>Particle size channel | 0.3,0.5,1.0,3.0,5.0,10μm |
| 外形尺寸<br>Dimensions | 310*240*280mm³（宽×深×高）<br>310*240*280mm³（w*d*h） |
| 重量<br>Weight | 8kg |
| 采样周期<br>Sampling period | 1 秒- 99 分99 秒（可调）<br>1s~99 min 99s (adjustable) |
| 采样频率<br>Sampling frequency | 1-99小时99分99秒<br>1~99h 99m 99s |
| 电源<br>Power supply | 14.8V锂电池<br>14.8V lithium battery |
| 显示<br>Display | 800*400 分辨率,65k 色,触摸屏控制系统<br>800*480 resolution, 65k colors, touch screen control system |
| 额定功率<br>Rated power | 30W |
| 自净时间<br>Self-cleaning time | ≤10min |
| 光源及寿命<br>Light source life | 具有50000小时MTTF长寿命激光二极管<br>Long life laser diode with 50,000 hours MTTF |
| 打印模式<br>Print mode | 内置针式打印机<br>Dot matrix printing |
| 计数报警<br>Counting alarm | 0.3,0.5,1.0,5.0 每个通道可任意设置报警数据<br>0.3,0.5,1.0,5.0 Alarm data can be set arbitrarily for each channel |
| 数据存储<br>Data storage | 10000组+3000组UCL<br>10000 groups + 3000 groups UCL |
| 连续工作时间<br>Continuous working hours | 6H |
| 最大采样浓度<br>Maximum sampling concentration | 35000/L |
| 工作环境<br>Working environment | 温度:10~35℃；湿度:20%~75%<br>Temperature: 10~ 35 ℃; Humidity: 20%~ 75% |
| 可选配件<br>Optional accessories | SS 辅助车<br>SS Auxiliary Vehicle |
| 处理方法<br>Processing method | 自动测量，计算测量，置信度测量<br>Single, Repeated, Continuous, Calculated, GBmodel(UCL) |

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# Y09-1016激光尘埃粒子计数器
# Y09-1016 airborne particle counter

发明专利：ZL201010223403.4　实用新型专利：ZL200920041399.2　ZL201020254384.7
invention patent: ZL201010223403.4　utility model patent：ZL200920041399.2　ZL201020254384.7

## 技术特点：
## TECHNICAL FEATURES:

- 触摸屏控制系统
  Touch screen control system
- $m^3/ft^3$ 单位选择
  $M^3/ft^3$ unit selection
- 13000 组采样数据存储
  13,000 sampling data storage
- ISO/GMP/209E 标准可选
  ISO/GMP/209E standard optional
- 三级密码管理权限
  Three-level password management authority
- USB 导出和 实时打印
  USB export and real-time printing
- 计数报告符合 GMP/ ISO14644/209EISO21501-4
  Count report in accordance with GMP/ISO14644/209EISO21501-4




## 性能参数：
## PERFORMANCE PARAMETERS:

| | |
|---|---|
| 采样流量<br>sampling flow | 2.83L/min |
| 粒径通道<br>Particle size channel | 0.1,0.2,0.3,0.5,1.0,5.0um |
| 外形尺寸<br>Dimensions | 310*240*180mm³（宽×深×高）<br>310*240*180mm³（w*d*h） |
| 重量<br>Weight | 5kg |
| 采样周期<br>Sampling period | 1 秒- 99 分99 秒（可调）<br>1s~99 min 99s (adjustable) |
| 采样频率<br>Sampling frequency | 1-99小时99分99秒<br>1~99h 99m 99s |
| 电源<br>Power supply | 14.8V锂电池<br>14.8V lithium battery |
| 显示<br>Display | 800*400 分辨率,65k 色,触摸屏控制系统<br>800*480 resolution, 65k colors, touch screen control system |
| 额定功率<br>Rated power | 20W |
| 自净时间<br>Self-cleaning time | ≤10min |
| 光源及寿命<br>Light source life | 具有50000小时MTTF长寿命激光二极管<br>Long life laser diode with 50,000 hours MTTF |
| 打印模式<br>Print mode | 内置针式打印机<br>Dot matrix printing |
| 计数报警<br>Counting alarm | 0.1,0.3,0.5,5.0 每个通道可任意设置报警数据<br>0.1,0.3,0.5,5.0 Alarm data can be set arbitrarily for each channel |
| 数据存储<br>Data storage | 99999组<br>99999groups |
| 连续工作时间<br>Continuous working hours | 6H |
| 最大采样浓度<br>Maximum sampling concentration | 35000/L |
| 工作环境<br>Working environment | 温度:10~35℃；湿度:20%~75%<br>Temperature: 10~ 35 ℃; Humidity: 20%~ 75% |
| 可选配件<br>Optional accessories | SS 辅助车<br>SS Auxiliary Vehicle |
| 处理方法<br>Processing method | 自动测量，计算测量<br>Automatic measurement and calculation |

# Y09-116激光尘埃粒子计数器
# Y09-116 airborne particle counter

发明专利：ZL201010223403.4　实用新型专利：ZL200920041399.2　ZL201020254384.7
invention patent: ZL201010223403.4　utility model patent：ZL200920041399.2　ZL201020254384.7

## 技术特点：
## TECHNICAL FEATURES:

- 触摸屏控制系统
  Touch screen control system
- $m^3/ft^3$ 单位选择
  $M^3/ft^3$ unit selection
- 13000 组采样数据存储
  13,000 sampling data storage
- ISO/GMP/209E 标准可选
  ISO/GMP/209E standard optional
- 三级密码管理权限
  Three-level password management authority
- USB 导出和 实时打印
  USB export and real-time printing
- 计数报告符合 GMP/ ISO14644/209EISO21501-4
  Count report in accordance with GMP/ISO14644/209EISO21501-4




## 性能参数：
## PERFORMANCE PARAMETERS:

| | |
|---|---|
| 采样流量<br>sampling flow | 28.3L/min |
| 粒径通道<br>Particle size channel | 0.1,0.2,0.3,0.5,1.0,5.0um |
| 外形尺寸<br>Dimensions | 310*240*280mm³（宽×深×高）<br>310*240*280mm³（w*d*h） |
| 重量<br>Weight | 8kg |
| 采样周期<br>Sampling period | 1 秒- 99 分99 秒（可调）<br>1s~99 min 99s (adjustable) |
| 采样频率<br>Sampling frequency | 1-99小时99分99秒<br>1~99h 99m 99s |
| 电源<br>Power supply | 14.8V锂电池<br>14.8V lithium battery |
| 显示<br>Display | 800*400 分辨率,65k 色,触摸屏控制系统<br>800*480 resolution, 65k colors, touch screen control system |
| 额定功率<br>Rated power | 30W |
| 自净时间<br>Self-cleaning time | ≤10min |
| 光源及寿命<br>Light source life | 具有50000小时MTTF长寿命激光二极管<br>Long life laser diode with 50,000 hours MTTF |
| 打印模式<br>Print mode | 内置针式打印机<br>Dot matrix printing |
| 计数报警<br>Counting alarm | 0.1,0.3,0.5,5.0 每个通道可任意设置报警数据<br>0.1,0.3,0.5,5.0 Alarm data can be set arbitrarily for each channel |
| 数据存储<br>Data storage | 10000组+3000组UCL<br>10000 groups + 3000 groups UCL |
| 连续工作时间<br>Continuous working hours | 6H |
| 最大采样浓度<br>Maximum sampling concentration | 35000/L |
| 工作环境<br>Working environment | 温度:10~35℃；湿度:20%~75%<br>Temperature: 10~ 35 ℃; Humidity: 20%~ 75% |
| 可选配件<br>Optional accessories | SS 辅助车<br>SS Auxiliary Vehicle |
| 处理方法<br>Processing method | 自动测量，计算测量，置信度测量<br>Single, Repeated, Continuous, Calculated, GBmodel(UCL) |

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# Y09-516DS激光尘埃粒子计数器
# Y09-516DS airborne particle counter

发明专利：ZL201010223403.4　实用新型专利：ZL200920041399.2　ZL201020254384.7
invention patent: ZL201010223403.4　utility model patent：ZL200920041399.2　ZL201020254384.7

## 技术特点：
## TECHNICAL FEATURES:

- 触摸屏控制系统
  Touch screen control system
- $m^3/ft^3$ 单位选择
  $M^3/ft^3$ unit selection
- 13000 组采样数据存储
  13,000 sampling data storage
- ISO/GMP/209E 标准可选
  ISO/GMP/209E standard optional
- 三级密码管理权限
  Three-level password management authority
- USB 导出和 实时打印
  USB export and real-time printing
- 计数报告符合 GMP/ ISO14644/209EISO21501-4
  Count report in accordance with GMP/ISO14644/209EISO21501-4




## 性能参数：
## PERFORMANCE PARAMETERS:

| | |
|---|---|
| 采样流量<br>sampling flow | 28.3L/min |
| 粒径通道<br>Particle size channel | 0.5, 1.0, 2.0, 3.0, 5.0, 10 μm |
| 外形尺寸<br>Dimensions | 285*240*240mm³（宽×深×高）<br>285*240*240mm³（w*d*h） |
| 重量<br>Weight | 7.35kg |
| 采样周期<br>Sampling period | 1 秒- 99 分99 秒（可调）<br>1s~99 min 99s (adjustable) |
| 采样频率<br>Sampling frequency | 1-99小时99分99秒<br>1~99h 99m 99s |
| 电源<br>Power supply | 14.8V锂电池<br>14.8V lithium battery |
| 显示<br>Display | 800*400 分辨率,65k 色,触摸屏控制系统<br>800*480 resolution, 65k colors, touch screen control system |
| 额定功率<br>Rated power | 30W |
| 自净时间<br>Self-cleaning time | ≤10min |
| 光源及寿命<br>Light source life | 具有50000小时MTTF长寿命激光二极管<br>Long life laser diode with 50,000 hours MTTF |
| 打印模式<br>Print mode | 内置针式打印机<br>Dot matrix printing |
| 计数报警<br>Counting alarm | 0.5,1.0,5.0 每个通道可任意设置报警数据<br>0.5,1.0,5.0 Alarm data can be set arbitrarily for each channel |
| 数据存储<br>Data storage | 10000组+3000组UCL<br>10000 groups + 3000 groups UCL |
| 连续工作时间<br>Continuous working hours | 6H |
| 最大采样浓度<br>Maximum sampling concentration | 35000/L |
| 工作环境<br>Working environment | 温度:10~35℃；湿度:20%~75%<br>Temperature: 10~ 35 ℃; Humidity: 20%~ 75% |
| 可选配件<br>Optional accessories | SS 辅助车<br>SS Auxiliary Vehicle |
| 处理方法<br>Processing method | 自动测量，计算测量，置信度测量<br>Single, Repeated, Continuous, Calculated, GBmodel(UCL) |

# Y09-3056DS激光尘埃粒子计数器
# Y09-3056DS airborne particle counter

发明专利：ZL201010223403.4　实用新型专利：ZL200920041399.2　ZL201020254384.7
invention patent: ZL201010223403.4　utility model patent：ZL200920041399.2　ZL201020254384.7

## 技术特点：
## TECHNICAL FEATURES:

- 触摸屏控制系统
  Touch screen control system
- $m^3/ft^3$ 单位选择
  $M^3/ft^3$ unit selection
- 13000 组采样数据存储
  13,000 sampling data storage
- ISO/GMP/209E 标准可选
  ISO/GMP/209E standard optional
- 三级密码管理权限
  Three-level password management authority
- USB 导出和 实时打印
  USB export and real-time printing
- 计数报告符合 GMP/ ISO14644/209EISO21501-4
  Count report in accordance with GMP/ISO14644/209EISO21501-4




## 性能参数：
## PERFORMANCE PARAMETERS:

| | |
|---|---|
| 采样流量<br>sampling flow | 50L/min |
| 粒径通道<br>Particle size channel | 0.3, 0.5, 1.0, 3.0, 5.0, 10 μm |
| 外形尺寸<br>Dimensions | 310*240*280mm³（宽×深×高）<br>310*240*280mm³（w*d*h） |
| 重量<br>Weight | 8.5kg |
| 采样周期<br>Sampling period | 1 秒- 99 分99 秒（可调）<br>1s~99 min 99s (adjustable) |
| 采样频率<br>Sampling frequency | 1-99小时99分99秒<br>1~99h 99m 99s |
| 电源<br>Power supply | 14.8V锂电池<br>14.8V lithium battery |
| 显示<br>Display | 800*400 分辨率,65k 色,触摸屏控制系统<br>800*480 resolution, 65k colors, touch screen control system |
| 额定功率<br>Rated power | 30W |
| 自净时间<br>Self-cleaning time | ≤10min |
| 光源及寿命<br>Light source life | 具有50000小时MTTF长寿命激光二极管<br>Long life laser diode with 50,000 hours MTTF |
| 打印模式<br>Print mode | 内置针式打印机<br>Dot matrix printing |
| 计数报警<br>Counting alarm | 0.5,1.0,5.0 每个通道可任意设置报警数据<br>0.5,1.0,5.0 Alarm data can be set arbitrarily for each channel |
| 数据存储<br>Data storage | 10000组+3000组UCL<br>10000 groups + 3000 groups UCL |
| 连续工作时间<br>Continuous working hours | 6H |
| 最大采样浓度<br>Maximum sampling concentration | 35000/L |
| 工作环境<br>Working environment | 温度:10~35℃；湿度:20%~75%<br>Temperature: 10~ 35 ℃; Humidity: 20%~ 75% |
| 可选配件<br>Optional accessories | SS 辅助车<br>SS Auxiliary Vehicle |
| 处理方法<br>Processing method | 自动测量，计算测量，置信度测量<br>Single, Repeated, Continuous, Calculated, GBmodel(UCL) |

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# Y09-3106DS激光尘埃粒子计数器
# Y09-3106DS airborne particle counter

发明专利：ZL201010223403.4　实用新型专利：ZL200920041399.2　ZL201020254384.7
invention patent: ZL201010223403.4　utility model patent：ZL200920041399.2　ZL201020254384.7

## 技术特点：
## TECHNICAL FEATURES:

- 触摸屏控制系统
  Touch screen control system
- $m^3/ft^3$ 单位选择
  $M^3/ft^3$ unit selection
- 13000 组采样数据存储
  13,000 sampling data storage
- ISO/GMP/209E 标准可选
  ISO/GMP/209E standard optional
- 三级密码管理权限
  Three-level password management authority
- USB 导出和 实时打印
  USB export and real-time printing
- 计数报告符合 GMP/ ISO14644/209EISO21501-4
  Count report in accordance with GMP/ISO14644/209EISO21501-4




## 性能参数：
## PERFORMANCE PARAMETERS:

| | |
|---|---|
| 采样流量<br>sampling flow | 100L/min |
| 粒径通道<br>Particle size channel | 0.3, 0.5, 1.0, 3.0, 5.0, 10 μm |
| 外形尺寸<br>Dimensions | 310*240*280mm³（宽×深×高）<br>310*240*280mm³（w*d*h） |
| 重量<br>Weight | 8.5kg |
| 采样周期<br>Sampling period | 1 秒- 99 分99 秒（可调）<br>1s~99 min 99s (adjustable) |
| 采样频率<br>Sampling frequency | 1-99小时99分99秒<br>1~99h 99m 99s |
| 电源<br>Power supply | 14.8V锂电池<br>14.8V lithium battery |
| 显示<br>Display | 800*400 分辨率,65k 色,触摸屏控制系统<br>800*480 resolution, 65k colors, touch screen control system |
| 额定功率<br>Rated power | 30W |
| 自净时间<br>Self-cleaning time | ≤10min |
| 光源及寿命<br>Light source life | 具有50000小时MTTF长寿命激光二极管<br>Long life laser diode with 50,000 hours MTTF |
| 打印模式<br>Print mode | 内置针式打印机<br>Dot matrix printing |
| 计数报警<br>Counting alarm | 0.5,1.0,5.0 每个通道可任意设置报警数据<br>0.5,1.0,5.0 Alarm data can be set arbitrarily for each channel |
| 数据存储<br>Data storage | 10000组+3000组UCL<br>10000 groups + 3000 groups UCL |
| 连续工作时间<br>Continuous working hours | 6H |
| 最大采样浓度<br>Maximum sampling concentration | 35000/L |
| 工作环境<br>Working environment | 温度:10~35℃；湿度:20%~75%<br>Temperature: 10~ 35 ℃; Humidity: 20%~ 75% |
| 可选配件<br>Optional accessories | SS 辅助车<br>SS Auxiliary Vehicle |
| 处理方法<br>Processing method | 自动测量，计算测量，置信度测量<br>Single, Repeated, Continuous, Calculated, GBmodel(UCL) |

# Y09-5106DS激光尘埃粒子计数器
# Y09-5106DS airborne particle counter

发明专利：ZL201010223403.4　实用新型专利：ZL200920041399.2　ZL201020254384.7
invention patent: ZL201010223403.4　utility model patent：ZL200920041399.2　ZL201020254384.7

## 技术特点：
## TECHNICAL FEATURES:

- 触摸屏控制系统
  Touch screen control system
- $m^3/ft^3$ 单位选择
  $M^3/ft^3$ unit selection
- 13000 组采样数据存储
  13,000 sampling data storage
- ISO/GMP/209E 标准可选
  ISO/GMP/209E standard optional
- 三级密码管理权限
  Three-level password management authority
- USB 导出和 实时打印
  USB export and real-time printing
- 计数报告符合 GMP/ ISO14644/209EISO21501-4
  Count report in accordance with GMP/ISO14644/209EISO21501-4




## 性能参数：
## PERFORMANCE PARAMETERS:

| | |
|---|---|
| 采样流量<br>sampling flow | 100L/min |
| 粒径通道<br>Particle size channel | 0.5, 1.0, 2.0, 3.0, 5.0, 10 μm |
| 外形尺寸<br>Dimensions | 310*240*280mm³（宽×深×高）<br>310*240*280mm³（w*d*h） |
| 重量<br>Weight | 8.5kg |
| 采样周期<br>Sampling period | 1 秒- 99 分99 秒（可调）<br>1s~99 min 99s (adjustable) |
| 采样频率<br>Sampling frequency | 1-99小时99分99秒<br>1~99h 99m 99s |
| 电源<br>Power supply | 14.8V锂电池<br>14.8V lithium battery |
| 显示<br>Display | 800*400 分辨率,65k 色,触摸屏控制系统<br>800*480 resolution, 65k colors, touch screen control system |
| 额定功率<br>Rated power | 30W |
| 自净时间<br>Self-cleaning time | ≤10min |
| 光源及寿命<br>Light source life | 具有50000小时MTTF长寿命激光二极管<br>Long life laser diode with 50,000 hours MTTF |
| 打印模式<br>Print mode | 内置针式打印机<br>Dot matrix printing |
| 计数报警<br>Counting alarm | 0.5,1.0,5.0 每个通道可任意设置报警数据<br>0.5,1.0,5.0 Alarm data can be set arbitrarily for each channel |
| 数据存储<br>Data storage | 10000组+3000组UCL<br>10000 groups + 3000 groups UCL |
| 连续工作时间<br>Continuous working hours | 6H |
| 最大采样浓度<br>Maximum sampling concentration | 35000/L |
| 工作环境<br>Working environment | 温度:10~35℃；湿度:20%~75%<br>Temperature: 10~ 35 ℃; Humidity: 20%~ 75% |
| 可选配件<br>Optional accessories | SS 辅助车<br>SS Auxiliary Vehicle |
| 处理方法<br>Processing method | 自动测量，计算测量，置信度测量<br>Single, Repeated, Continuous, Calculated, GBmodel(UCL) |

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# Y09-3016H激光尘埃粒子计数器
# Y09-3016H airborne particle counter

## 技术特点:
## TECHNICAL FEATURES:







- 3.5寸触摸屏操控
  3.5 inch touch screen control.
- 满电6小时工作时间
  6 hours of working time when fully charged.
- 0.3、0.5、1.0、3.0、5.0、10μm六粒径通道
  0.3, 0.5, 1.0, 3.0, 5.0, 10 μm Six particle size channel.
- 大容量数据存储
  Large capacity data storage.

## 性能参数:
## PERFORMANCE PARAMETERS:

| | | | |
|---|---|---|---|
| 外形尺寸<br>Overall dimensions | 134*55*238mm³(长*宽*高)<br>134*55*238mm³(w*d*h) | 采样频率<br>Sampling frequency | 1秒-99时99分99秒<br>1 second -99 hours, 99 minutes, 99 seconds |
| 质量<br>Weight | 0.8Kg | 采样延时<br>Sample delay | 0-99秒<br>0~99s |
| 最大计数范围<br>Max Count Range | 35000/L | 粒径通道<br>Particle size channel | 0.3、0.5、1.0、3.0、5.0、10μm |
| 光源<br>Light source | 760nm激光二极管<br>760nm laser diode | 采样流量<br>Sample flow | 2.83L/min |
| 采样周期<br>Sampling period | 1秒-99分99秒<br>1s~99m 99 s | 置信度(UCL)<br>Confidence Level (UCL) | 0.5、5.0μm UCL |
| 打印模式<br>Print mode | 蓝牙打印<br>Bluetooth printing | 准确度<br>Accuracy | ±10%气溶胶<br>± 10% aerosol |
| 自净时间<br>Zero Count | ≤10min | 操作温度<br>Operate temperature | 0~40℃ |
| 显示方式<br>Display method | 480*320 65K 3.5寸触摸屏<br>480 * 320 65K 3.5-inch touch screen | 数据存储<br>Data Storage | 10000组+10000组 UCL<br>10000+10000 UCL |
| 电源<br>Power supply | DC7.4V供电/连续工作6小时<br>DC7.4V power supply/continuous operation for 6 hours | | |

# Y09系列组合套件仪器箱
# Y09 series combination kit instrument case

## 产品简介:
## PRODUCT INTRODUCTION:

本组合套件功能全,精度高,配以精美的仪器箱;便于携带,使用方便,可方便的测试环境的温湿度;压差,风速,照度,它是一盒精美的“套餐”,是空气净化和暖通空调工程师的得力助手。
This combination kit is fully functional, highly accurate, and equipped with an exquisite instrument box, which is convenient to carry and use, It can easily test the temperature and humidity, pressure difference wind speed, and illumination of the environment.
It is a beautiful"package" and is a right-hand man for air purification and HVAC engineers.



- 箱体尺寸 : 450* 350* 150( mm)
  Box size:450*350*150(mm)
- TEST510 微压差仪
  TEST510 Microdifferential Pressure Meter
- TEST0405 数字风速仪
  TEST0405 Digital anemometer
- TEST1350A 数字声度计
  TEST1350A digital sound meter
- LX1010 数字光度表
  LX1010 digital photometer
- Y09-6H3 激光尘埃粒子计数器
  Y09-6H3 airborne particle counter



# 压缩空气扩散器 Compressed air diffuser



## 产品简介:
## PRODUCT INTRODUCTION:

压缩空气扩散器是一种方便于检测压缩空气中的尘埃粒子和浮游菌的一种减压装置，利用调节阀能调节减压装置内的压缩空气的压力和压缩空气的室内外压差，方便仪器的检测。
Compressed air diffuser is a pressure reducing device that is convenient for detecting dust particles and floating bacteriain compressed air.
Using a regulating valve, the pressure of compressed air in the pressure reducing device and the indoor and outdoor pressure difference of compressed air can be adjusted, facilitating instrument detection.

## 技术特点:
## TECHNICAL FEATURES:

| | |
|---|---|
| 泄压压力范围<br>Pressure relief and range | ≦0.5 MPa |
| 环境温度<br>Ambient temperature | 10-35℃ |
| 湿度<br>humidity | 0-95%RH |
| 耐压<br>Pressure resistance | 0.8 MPa |
| 泄压后内外压差<br>Internal and external pressure difference after pressure relief | > 10 Pa |

# 气流流型检测仪 Airflow pattern tester




## 产品简介:

QL-02 型气流流行检测仪是一种利用超声波原理将水雾化为直径 1~10μm 的大量雾气，通过气管喷出，形成肉眼可见的高浓度气溶胶，在洁净室或层流设备内的气流作用下，形成可见的气流流型组织状态,人们可直观发现层流、湍流等气流现象。
QL-02 airflow pattern tester is a kind of use of ultrasonic principle to atomize water into a large number of mist with a diameter of 1~10um,sprayed out through the trachea, forming a high concentration aerosol visible to the naked eye,under the action of airflow in the clean room or laminar flow equipment, a visible airflow pattern organization state is formed, and people can intuitively find laminar flow, turbulence and other airflow phenomena.

## 功能特点:

1. 储水水位显示，低水位报警功能
   Water storage level display, low water level alarm function.
2. 开关喷雾功能，雾量可调
   Switch spray function, fog volume adjustable.
3. 快速加水口和排水孔，提高效率
   Quickly add water and drain holes to improve efficiency.
4. 气流分配器，可均匀看见整个面的气流状态
   Airflow distributor, which can uniformly see the airflow state of the entire surface.
5. 全不锈钢制作，抗腐，易清洁
   Made of all stainless steel, corrosion resistanteasy to clean

全国服务热线(TEL): 4006-555-379
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# FL—100型风量仪
# FL—100 air flow hood















## 产品特点:
## PRODUCT FEATURES:

鸿基洁净 FL-100 风量仪(罩)为鸿基生产,目前根据用户反映,又完成了改进型,更贴近用户的要求改进的 FL-100 具有三大特点:

1. 电池供电一次使用 30 个小时,可充电;
2. 有带轮子的可调式托架,代替人的举托,总高度可达 3M ,使风量测量更轻松。(选购)
3. 可储存 1000 个风口的测量数据,可随意翻阅、删除、打印和记录。

According to user feedback, an improved version has been completed, which is meet user requirements;
This product has three main characteristics:
1.The battery can support continuous operation for 30 hours and can be recharged.
2.There is an adjustable bracket with wheels, which can replace the lifting of a person.
3.It can store the measurement data of 1000 air vents, and can freely browse, delete print, and record.

## 性能参数:
## PERFORMANCE PARAMETERS:

| 项目<br>Project | 参数<br>Parameter | |
|---|---|---|
| 使用标准<br>Use standars | 2010版GMP<br>2010 version of GMP | ISO14644,FDA,EU,GMP |
| 目标客户<br>Target customers | 医药、航空、电子、健康、食品等<br>Medicine, aviation, electronics, health, food, etc | |
| 基本技能<br>Basic skills | 4.3英寸显示屏，蓝牙打印，电池可工作30小时，断电后不会丢失数据<br>It features a 4.3 - inch display screen, Bluetooth printing functionality. The battery can last for 30 hours, and data will not be lost in case of power outage. | |
| 测试范围<br>Test range | 200-3500m³ /h | |
| 相对湿度范围<br>Relative humidity range | 全量程±5%F.S<br>Full scale ±5%F.S (Full Scale) | |
| 储存能力<br>Storage capacity | 自动存储1000个风口的风量值<br>Automatically store the air volume values of 1000 air vents | |
| 温度范围<br>Temperature range | 5-35℃ | |
| 相对湿度<br>Relative humidity | 15%-70%严禁测量腐蚀性气体<br>15% -70% It is strictly forbidden to measure corrosive gases | |
| 防风罩<br>Windshield | 570*570mm,1套，830*830mm，1 套<br>570*570mm,1 set，830*830mm，1 set | |
| 开启方式<br>Opening method | 手动按钮无线遥控器<br>Manual button wireless remote control | |
| 打印方式<br>Printing method | 外置无线热敏打印机1台<br>1 external wireless thermal printer | |
| 充电电池<br>Rechargeable battery | 7.2V | |
| 通讯<br>Communication | USB数据导出<br>USB data export | |
| 重量<br>Weight | 4kg（包括电池和570取样盖）<br>4Kg (including battery and 570 sampling cover) | |

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# FKC系列浮游菌采样器
# FKC series biological air sampler

发明专利:ZL201010215769.7　实用新型专利：ZL201220002285.9　外观专利: ZL 201030276025．7
Invention Patent :ZL201010215769.7　Utility model patent：ZL201220002285.9　Design patent: ZL 201030276025．7



FKC-1



FKC-100



FKC-100A

## 产品简介:
## PRODUCT INTRODUCTION:

FKC 系列浮游空气尘菌采样器是一种高效的多孔吸入式尘菌采样器。它根据颗粒撞击原理和等速采样理论设计采样直接，采集口风速与洁净室内风速基本一致，能更准确地反映洁净室内的微生物浓度。采样时，带尘菌空气高速通过微孔，被撞击在培养皿内的琼脂表面；这些活体微生物在培养过程中，发生动态再水化过程，高速生长，从而更快得出结果。

本仪器结构独特新颖，分上下两部分，上部分采集口和采样座及气泵，下部为控制器及电池。采样口和外壳采用优质航空铝制造，表面闭孔处理，便于使用前的灭菌消毒。本仪器功能强大，采样最大，性能稳定，操作简便。

达到国际同类产品先进水平，是各制药厂、医院、生物制品、食品加工、公共场所等的检测部门理想的浮尘菌浓度采样仪器。

FKC series biological air sampler is a highly efficient porous suction-type dust and bacteria sampler. It is designed based on the principle of particle impaction and the theory of isokinetic sampling.

The sampling is direct. The wind speed at the sampling inlet is basically the same as that in the clean room, enabling it to reflect the concentration of microorganisms in the clean room more accurately. During sampling, the dust and bacteria-laden air passes through the micropores at high speed and is impacted onto the agar surface in the culture dish. During the culturing process, these living microorganisms undergo a dynamic rehydration process and grow rapidly, thus enabling results to be obtained more quickly.

This instrument has a unique and novel structure, which is divided into two parts: the upper part consists of the sampling inlet, the sampling base and the air pump, while the lower part is composed of the controller and the battery. The sampling inlet and the outer casing are made of high-quality aviation aluminum, and the surface is treated with closed pores, facilitating sterilization and disinfection before use. This instrument is powerful, has a large sampling capacity, stable performance and is easy to operate.

It has reached the advanced level of similar international products and is an ideal sampling instrument for detecting the concentration of floating dust and bacteria in pharmaceutical factories, hospitals, biological products, food processing, public places and other testing departments.

## 技术特点:
## PRODUCT FEATURES:

- 采集口为无数微孔，减少了尘菌重叠，降低了微生物计数错误。
  The collection port is numerous micropores, which reduces the overlap of dust and bacteria, and reduces the error of microbial count.
- 采样量从0.01-2. 0m³任意设定。
  Sampling volume from 0.01~2.0m³ Arbitrary setting.
- LCD显示采样量，采样时间等参数。
  LCD displays parameters such as sampling volume and sampling time.
- 可将采样量，采样时间等参数按组储存，最多可储存256组数据。
  The parameters such as sampling volume and sampling time can be stored in groups, and up to 256 groups of data can be stored.
- 造型独特，使用方便。
  Unique design, easy to operate.
- 更换培养皿简便，拿下采样头即可更换培养皿（使用标准通用培养皿 φ90X15)。
  It is easy to replace the petri. Take down the sampling head and replace the petri (use standard universal petri φ 90X15).



# FKC系列浮游菌采样器
# FKC series biological air sampler

## 产品实拍:
## PRODUCT DETAILS:










## 性能参数:
## PERFORMANCE PARAMETERS:

| 参数型号<br>Parameter/Model | FKC-1 | FKC-100 | FKC-100A |
|---|---|---|---|
| 采样流量<br>Sampling flow | 100L/min±5% | 100L/min±2% | |
| 采样头撞击风速<br>Speed crash | 12m/s | 16m/s | |
| 收集效率<br>Collection efficiency | ≥75% | ≥95% | |
| 控制方式<br>Control method | 液晶显示<br>Liquid crystal display (LCD) | 触屏智能控制<br>Touch screen intelligent control | |
| 流量控制<br>Flow control | | | 自动控制<br>Automatic control |
| 设定采样量范围<br>Sampling volume range | 10-6000L | | |
| 数据交换<br>Data exchange | | | USB |
| 电源<br>Power supply | 交直流两用，可充电电池DC7.4V,充满电后可连续工作6小时<br>AC/DC,chargeable buttery:DC7.4V,continuous work for 6h after charged | | |
| 体积<br>Volume | φ120*300 | | |
| 重量<br>Weight | 2.5kg | | |
| 标准配件<br>Standard accessories | 电源适配器，培养皿2个，说明书，合格证，出厂检验报告，保修卡<br>AC adapter,2ubstrate vtensil, inspection report,warranty Cards | | |

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# AG系列气溶胶发生器
# AG series aerosol generator

## 产品简介:

便携式的气溶胶发生器根据发生原理可分为冷凝震荡发生式和加热发生式两种。其中，冷凝震荡发生式的气溶胶发生器有 AG-220( 带泵型 ) AG-230(压缩空气型),二款,加热发生式的气溶胶发生器有 AG-1800 型。

气溶胶发生器可以发生多分散的粒子，在压力为 20pisg 及流量为 50 ~ 5400cfm 的范围下，可发生浓度为 10 ~ 100ug/L 的气溶胶粒子(AG-230)。

**AG-230 型气溶胶发生器**是我公司自主研发生产的最新款轻重量不锈钢的冷凝震荡发生式发生器。它仅仅需要洁净的压缩气体来发生多分散粒子。

AG-230 有 4 个拉氏喷嘴。在压力为 20psig，空气流量为 540cfm 时，气溶胶浓度大约为 100ug/L。二个调节阀可调节仪器使用 2 ~ 4 个喷嘴来提供不同范围的气溶胶粒子浓度。AG-230 型气溶胶发生器通常被用来检测空气流量不大于 5400cfm 的高效过滤器系统。它更多地适用于高效过滤器机组、负压过滤装置、生物安全柜等设备。

**AG-220 型气溶胶发生器**是我公司自主研发生产的便携式气溶胶发生器,与气溶胶发生器 AG-230 型一样,都是利用压缩空气冷凝震荡产生气溶胶粒子；不同之处是他内藏压缩空气源,无需借助外来压缩空气。

AG-220 型气溶胶发生器有 6 个 Laskin Nozzles 喷嘴,当期全部开启并在 20psig 压力时,能够到达 200cfm 的流量,能够产生并输出气溶胶浓度近 100 ug/L。通过调节 2 至 6 个 Laskin Nozzles 喷嘴,来实现不同气溶胶浓度的输出。

AG-220 型气溶胶发生器建议在测试风量在 2000cfm 以下来运行,用来测试单一设备单元高效过滤器的检测。

**AG-1800 型气溶胶发生器**是我公司自主研发唯一款依靠加热发生原理来产生并输出气溶胶粒子的气溶胶发生器。

## PRODUCT INTRODUCTION:

**AG-220 aerosol generator** is a portable aerosol generator independently developed and produced by our company.It uses compressed air to condense and vibrate to produce aerosol particles; The difference is that it has a Built-in pump, without the help of external compressed air.There are 6 Laskin nozzles,When fully opened and at the pressure of 20 psig, the flow rate of 200cfm can be reached, and the aerosol concentration can be generated and output nearly 100ug/L.The output of different aerosol concentrations can be achieved by adjusting 2 to 6 Laskinnozzles.It is recommended to run when the test air volume is less than 2000 cfm, which is used to test the detection of high efficiency filter of single equipment unit.

**AG-230 aerosol generator** is the latest light weight stainless steel condensate oscillation generator independently developed and produced by our company. It only needs clean compressed gas to generate polydisperse particles. There are 4 Laskin nozzles. When the pressureis 20 psig and the air flow is 540 cfm, the aerosol concentration is about 100 ug/L.The regulating valve can adjust the instrument to use 2-4 nozzles to provide aerosol particle concentrations in different ranges,It is usually used to detect the high efficiency filter system with air flow not greater than 5400 cfm.It is more suitable for high efficiency filter unit, negative pressure filter unit, biosafety cabinet and other equipment.

**AG-1800 aerosol generator** is an aerosol generator independently developed by our company that generates and transports aerosol particles based on the principle of heating generation.The applicable flow is wider, reaching 1500~65000 cfm, which can meet the detection and use of high efficiency filter with large flow.



AG-230



AG-220




AG-1800









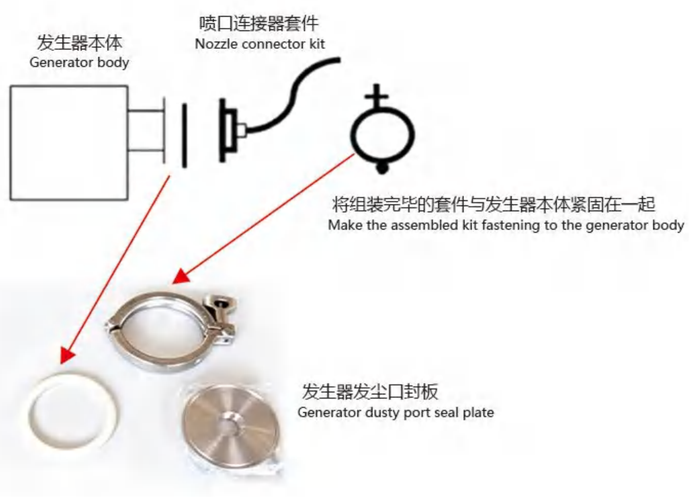
# AG系列气溶胶发生器
# AG series aerosol generator















## 技术参数：
## PERFORMANCE PARAMETERS:

| 型号 / 参数<br>Model/Parameter | AG-220 | AG-230 | AG-1800 |
|---|---|---|---|
| 发雾形式<br>Form of fog generation | 带泵型<br>with pump type | 压缩空气型<br>compressed air type | 热发型<br>heat generation type |
| 可使用的流量范围<br>Available flow rate range | 50~2000cfm(1.4-55m³/min) | 50~5400cfm(1.4-150m³/min) | 1500-65000cfm(1.4-150m³/min) |
| 悬浮粒子浓度<br>Suspended particle concentration | 10μg/L; 流量 2000cfm (约 55m³/min);<br>10 μg/L; flow rate 2000 cfm (approximately 55 m³/min)<br>100μg/L; 流量 200cfm (约 5.5m³/min)<br>100 μg/L; flow rate 200 cfm (approximately 5.5 m³/min) | 10μg/L；流量 5400cfm (150m³/min);<br>10 μg/L; flow rate 5400 cfm (150 m³/min)<br>100μg/L；流量 540cfm ( 约 15m³/min)<br>100 μg/L; flow rate 540 cfm (approximately 15 m³/min) | 10μg/L: 流量 65000cfm;<br>10 μg/L: Flow rate 65000 cfm<br>100μg/L: 流量 6500cfm<br>10 μg/L: Flow rate 6500 cfm |
| 发生粒子<br>Generated particles | / | PAO、DOP、多分散<br>PAO、DOP、Polydisperse | / |
| 发生方法<br>Generation method | 2-6 拉斯金喷嘴 | 2-4 拉斯金喷嘴 | / |
| 压缩气体<br>Compressed gas | 内置空压机<br>Built-in compressed air machine | 外接压缩空气<br>External compressed air | 氮气、氩气、二氧化碳或氦气 (50psi)<br>Nitrogen, Argon, Carbon, Dioxideor Helium (50psi) |
| 电源<br>Power supply | 220V AC,50HZ | / | 220V AC,50HZ |
| 外形尺寸 (mm)<br>Overall dimensions(mm) | 200*270*500 | 220*280*300 | 350*250*250 |
| 重量<br>Weight | 25kg | 6.5kg | 9.1kg |

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# DP-30气溶胶光度计
# DP-30 aerosol photometer

## 产品简介:
## PRODUCT INTRODUCTION:

DP-30是苏州鸿基洁净生产的一款填补国内空白的光度计，已经同时申请了国家发明专利及实用新型专利;该仪器主要用于现场高效过滤器系统的完整性检测。其扫描探头可以提供主机的全部操作功能。
经过性能验证，已经用数据及事实证明其在灵敏度、精度、重复性等多项技术指标完全达到国际先进水平，单项关键指标比如自净时间已经超越了国际知名品牌。

DP-30 aerosol photometer produced by Suzhou HjClean, which fills the domestic gap and has applied for both national invention patents and utility model patents; This instrument is mainly used for integrity testing of on-site high-efficiency filter systems. Its scanning probe can provide all operational functions of the host. After performance verification, it has been proven through data and facts that it has fully reached the international advanced level in multiple technical indicators such as sensitivity, accuracy, and repeatability. Single key indicators such as self purification time have surpassed internationally renowned brands.




## 性能参数:
## PERFORMANCE PAPAMETERS:

| | |
|---|---|
| 尺寸(mm)<br>Size(mm) | 260*370*160 |
| 重量(kg)<br>Weight(kg) | 10kg(主机)+&.5kg(探头)=10.5kg<br>10kg(host)+0.5kg(probe)=10.5kg |
| 仪器外壳<br>Instrument housing | 仪器外壳是坚固的，压铸的铝制外壳。当内部零部件维修和再校准时，很容易组装外壳有一个提手，方便搬运和查看数据<br>The instrument housing is a sturdy, die - cast aluminum shell. It is easy to assemble when the internal components need maintenance and recalibration. The housing is equipped with a handle, which facilitates transportation and data viewing. |
| 电源<br>Power supply | AC220V 50/60HZ |
| 自动量程<br>Automatic range | 自动地由0.0001%到100.0%<br>Automatically from 0.0001% to 100.0% |
| 警报器<br>Alarm | 声音报警部分可用被取消当超过可调的设置点时，内置音频警报器发声。控制而板和扫描探头上的视频警报器闪烁。<br>When the adjustable set point is exceeded, the built-in audio alarm will sound. The video alarm on the control panel and scanning probe flashes. The sound alarm section can be cancelled. |
| 可设定气溶胶原液<br>Aerosol stock solution | PA0油<br>PAO oil |
| 动态范围<br>Dynamic range | 高达600ug/L<br>Up to 600ug/L |
| 灵敏度<br>Sensitivity | 在大于或等于0.01%到100%范围内读数的1%<br>The deviate in reading within the range of 0.01% to 100% is ± 1% |
| 重复性<br>Repeatability | 在大于或等于0.01%到100%范围内读数的0.5%<br>The deviate in reading within the range of 0.01% to 100% is ± 0.5% |
| 光源<br>Light source | 长久的，稳定的，固态的散射小室光源。光度计在低电量下进行操作，产生较少热量和较低偏离值<br>A long - lasting, stable, solid - state light source for the scattering chamber. The photometer operates under low power conditions, generating less heat and having a lower deviation value. |
| 输出<br>Output | USB连接或外接打印机(选配)<br>USB connection or external printer (optional) |
| 报告<br>Report | 连续模式，存储模式，打印模式<br>Continuous mode, storage mode, printing mode |
| 电类安全<br>Electrical safety | CE,FCC,EN61010-1:2010,EN61326-:2006 |
| 随机附件<br>Standard accessories | 上游取样管;操作说明书;电源线<br>Upstream sampling pipe; Operation manual; Power cord |
| 可选配件<br>Optional accessories | 运输箱:可提供聚合泡棉垫，可锁定的坚固运输箱，可放置DP-30主机，探头，管嘴和操作说明书<br>Transport box: Comes with polymer foam pads, a sturdy, lockable transport box that can accommodate the DP-30 host, probe, nozzle, and operation manual. |
| 扫描探头<br>Scanning probe | 坚固、舒适手柄设计，配2.5m连接装配，2.8寸液品显示，超标警报时闪光(可选择);软探头360度方向可调<br>Durable and comfortable handle design, equipped with 2.5m connection assembly, 2.8-inch liquid product display, flashing when exceeding the limit alarm (optional); Soft probe with 360 degree adjustable direction. |
| 打印机<br>Printer | 可连接DP-30气溶胶光度计实时打印输出报告<br>Real time printing and output of reports |

# DP-30气溶胶光度计
# DP-30 aerosol photometer

## 产品特点：
## PRODUCT FEATURES:

1、更加友好的界面 - 主机采用 3.5 英寸的 LCD 显示，操作界面简洁方便，并增加了实时浓度数据，采用主题驱动型界面，容易使用气溶胶的测量，真空泵的取样速度在 LCD 上都有明确的显示，很容易看到；对于选择的报警类型，报警点，在 LCD 下面的菜单上都有指示；在 LCD 顶部是显示连接状态、报警类型和报告类型等信息。
2、便携的扫描探头 - 扫描探头通过电路连接来作为一个主机的延伸，所有主机的控状态，选择图标都在 2.8 寸的 LCD 上有显示。这使检测人员大大提高了工作效率，能够在检漏的同时立刻发现泄漏并作出提示。
3、测试结果追溯更容易 -DP-30 有三个独立的报告功能，存储模式，连续模式，打印模式（包括过滤器位置等内容可通过热敏打印机输出以便客户保存）。
4、性能保证 -DP-30 采用英国原装进口采样泵及日本进口光源，核心部件传感器采用国内顶级的高精度加工技术（与国内航空领域的技术要求同等标准），本仪器已被独立的测试和验证，符合电子和安全标准要求。
5、更完善快捷的售后服务 -DP-30 作为一款国内自主研发的光度计，可以提供更低成本的售后服务，2 小时内电话响应，主机软件终身免费升级，样机支持。

1. More user - friendly interface - The main unit is equipped with a 3.5 - inch LCD display. The operation interface is simple and convenient. Real - time concentration data has been added. It adopts a theme - driven interface, which makes it easy to measure aerosols. The sampling speed of the vacuum pump is clearly displayed on the LCD, making it easily visible. For the selected alarm type and alarm point, there are indications on the menu below the LCD. At the top of the LCD, information such as connection status, alarm type, and report type is displayed.
2. Portable scanning probe - The scanning probe is connected via a circuit and serves as an extension of the main unit. All control states and selected icons of the main unit are displayed on the 2.8 - inch LCD. This greatly improves the work efficiency of inspectors, enabling them to immediately detect and prompt for leaks during leak detection.
3. Easier traceability of test results - The DP - 30 has three independent reporting functions: storage mode, continuous mode, and print mode (including filter position and other content, which can be output through a thermal printer for customers to keep).
4. Performance guarantee - The DP - 30 uses a sampling pump imported from the UK and a light source imported from Japan. The core component sensor adopts top - notch high - precision processing technology in China (meeting the same standards as the technical requirements in the domestic aviation field). This instrument has been independently tested and verified and complies with electronic and safety standard requirements.
5. More complete and rapid after - sales service - As a domestic independently developed photometer, the DP - 30 can provide after - sales service at a lower cost. It offers a 2 - hour telephone response, free lifetime software upgrade for the main unit, and support for prototype machines.

## 标准配置：
## STANDARD CONFIGURATION:




主机
Main unit



扫描探头
Scanning probe



打印机
Printer








上游采样管
Upstream sampling tube

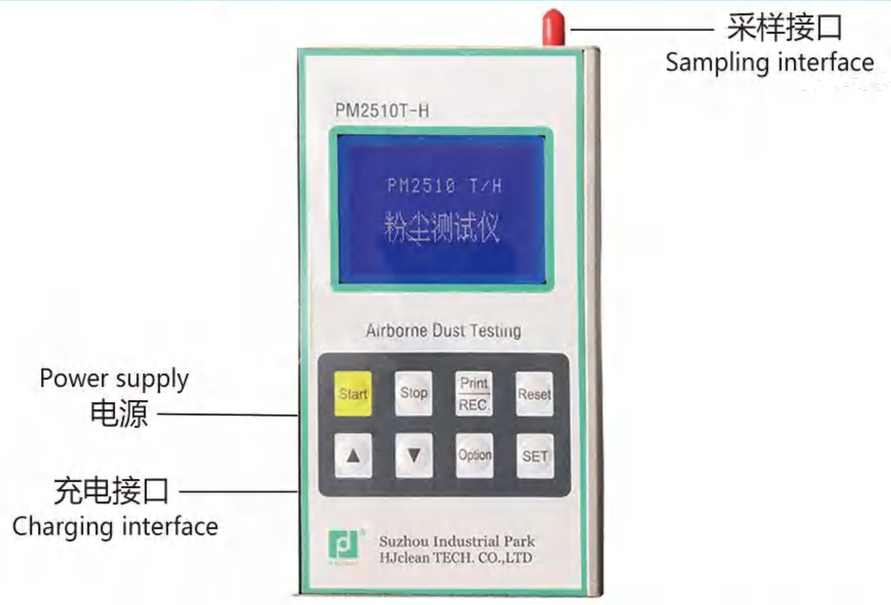


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# PM2510T粉尘检测仪
# PM2510T dust detector

实用新型专利:ZL200920041398.8 ZL201520131881.0 ZL201420128732.4
Utility model patent:ZL200920041398.8 ZL201520131881.0 ZL201420128732.4




## 产品概况:
## PRODUCT INTRODUCTION:

PM2510T 系列粉尘检测仪是测量空气环境中单位体积空气内所含粉尘质量浓度的检测仪器。本仪器采用了光闪射原理、运用国际新型的探测空气中粉尘质量浓度的传感器，是集光学和激光技术、电子技术、计算机技术、精密机械、空气动力学等学科于一体的高科技产品，具有测量精度高、检测合理、性能稳定、功能多、造型独特、体积小、重量轻、检测和携带方便等特点。
本仪器按照国际通用标准设计检测粒径档别和检测采样方式，其性能指标符合国家标准和国家计量检定规程。被广泛应用于环境空气品质、大气分析、航空航天等部门。

PM2510T dust detector is a detection instrument for measuring the mass concentration of dust in unit volume of air in the environment. This instrument adopts the principle of light flash and uses international new sensors to detect the mass concentration of dust in the air. It is a high-tech product integrating optics and laser technology, electronic technology, computer technology, precision machinery, aerodynamics, and other disciplines.
It has the characteristics of high measurement accuracy, reasonable detection, stable performance, multiple functions, unique modelingsmall size, light weight, and convenient detection and carrying.This instrument is designed to detect particle size grades and sampling methods in accordance with international standards, and its performance indicators comply with national standards and national metrological verification regulations.
It is widely used in environmental air quality, atmospheric analysis,aerospace and other departments.



## 技术参数:
## PERFORMANCE PARAMETERS:

| | |
|---|---|
| 额定采样流量<br>Rated sampling flow | 0.1CFM（2.83L/min） |
| 检测浓度范围<br>Detection concentration range | 10-100mg/m³ |
| 检测灵敏度<br>Testing sensitivity | 0.01mg/m³ |
| 测试误差<br>Test error | ≤15% |
| 自净时间<br>Self-cleaning time | ≤3min |
| 检测粒径分级<br>Detection of particle size classification | PM2.5,PM10,TSP |
| 采样时间设置<br>Sampling time settings | 1-99min |
| 延迟采样时间设置<br>Delay sampling time setting | 0-99min |
| 电源及功耗<br>Power consumption | 交直流两用AC220/DC12V，30W锂电池，连续工作时间5小时<br>AC220V/DC12V,30W lithium - battery and can operate continuously for 5 hours |
| 外形尺寸<br>External dimensions | 96*46*160mm(宽*深*高)<br>96*46*160mm(w*d*h) |
| 重量<br>Weight | 0.8kg |
| 数据处理功能<br>Data processing function | 存储数据2000组数据，DB9打印接口<br>Store 2000 sets of data, DB9 print port |
| 人机界面<br>HMI | 液晶屏<br>LCD |

# BPC-2型激光在线浮游菌检测仪
# BPC-2 laser airborne bacterial counter

发明专利：ZL 201310293526.9　　实用新型专利：ZL 201320415960.5
Invention patent：ZL 201310293526.9　　Utility model patent：ZL 201320415960.5






## 产品简介:
## PRODUCT INTRODUCTION:

激光在线浮游菌检测仪可实时检测空气中浮游微生物的动态浓度，及时快速显示环境浮游微生物浓度状态。可广泛用于生物制药洁净室，医院无菌手术等无菌环境检测，口岸检验检疫，重要部门与重大活动安全保卫，反生物恐怖袭击，生物武器预警等场合。

The laser online airborne bacteria detector can detect the dynamic concentration of airborne microorganisms in the air in real time and quickly display the concentration status of airborne microorganisms in the environment. It can be widely used in the detection of aseptic environments such as clean rooms in biopharmaceutical industries, sterile surgeries in hospitals, inspection and quarantine at ports, security protection for important departments and major events, countering bioterrorist attacks, early warning of biological weapons, and other occasions.







## 性能参数:
## PERFORMANCE PARAMETERS:

| 型号/参数<br>Model/Parameter | BPC-2 激光在线浮游细菌检测仪<br>BPC-2 Laser airborne counter | 在线激光浮游细菌传感器<br>Online laser planktonic bacteria sensor |
|---|---|---|
| 流量<br>air flow | 2L/min | 1L/ min 2L/min 2.83L/ min |
| 分辨率<br>Resolution | 1CFU | |
| 测试对象<br>Test object | 细菌、真菌和微生物颗粒<br>Bacteria, fungi and microbial particles | |
| 检测周期<br>Detection cycle | 默认1min<br>Default 1min | |
| 储存环境<br>Storage environment | 温度-15℃℃~60℃，湿度0~98%<br>Temperature -15℃~60℃,Humidity 0~98% | |
| 工作环境<br>Working environment | 温度 0℃~40℃，湿度0~95%<br>Temperature 0℃~40℃,Humidity 0~95% | |
| 数据储存<br>Data storage | 超过10000组数据记录，包括时间、颗粒粒子数、生物粒子数等<br>More than 10,000 sets of data records, including time, number of particles, number of biological particles, etc. | |
| 校准频率<br>Calibration frequency | 建议至少每年一次<br>Recommended at least once a year | |
| 尺寸<br>Size | 245mmx230mmx185mm(不含把手、喷等附件)<br>245mmx230mmx185mm(accessories such as handles and nozzles are not included) | |
| 重量<br>Weight | < 5.2kg | |
| 电源<br>Power supply | 锂电池<br>Lithium battery | RS232,RS485,4-20mA |

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# VHPB灭菌传递舱
# VHP sterilizer pass box

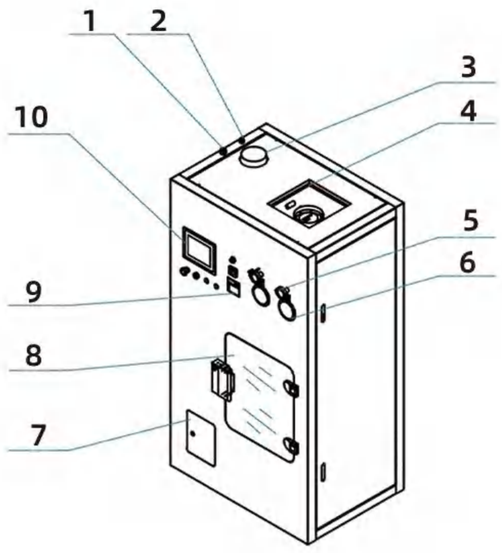
发明专利: ZL201610220728. 4　ZL201610392506. 0　实用新型专利：ZL201320372742. 8　ZL201620294911. 4　ZL201620538698. 7
Patent for Invention: ZL201610220728. 4　ZL201610392506. 0　Utility Model Patent：ZL201320372742. 8　ZL201620294911. 4　ZL201620538698. 7

## 产品简介：
## PRODUCT INTRODUCTION :

VHPB 灭菌传递舱是一种专用的，在不同功能间传递物品时能对物品表面提供生物除污的灭菌设备。它配备有专用的过氧化氢发生器、无菌送风系统、电磁门连锁系统、密闭系统、灭菌后除残留系统、专门的 HMI（人机界面）和灭菌介质给予系统。广泛用于制药、医疗、卫生、生物试验等场所的常温表面灭菌。

The VHP sterilizer pass box is a specialized sterilization equipment that can provide biological decontamination on the surface of items when transferring items between different functions. It is equipped with a dedicated hydrogen peroxide generator, a sterile air supply system, an electromagnetic door interlocking system, a sealed system, a system for removing residues after sterilization, a special HMI (Human-Machine Interface), and a sterilization medium delivery system. It is widely used for normal temperature surface sterilization in places such as pharmaceuticals, medical treatment, hygiene, and biological experiments.






1: 电源进线口
Power inlet

2: 气源接口
Air source interface

3: 排风口
exhaust vent

4: 新风初效过滤器
fresh air primary efficiency filter

5:DOP 接口
DOP interface

6: 压差表
Differential pressure gauge

7: 储液舱
liquid storage tank

8: 内舱
inner cabin

9: 打印机
printer

10: 工业电脑
industrial computer

## 型号说明：
## Model Description :

VHPB —— □ / 3

- / 3 → （传递舱的门，对开 2 门的省略，三门的为 3，90 度开门的左开门的 L, 右开门的 R）
  Door of the pass box against of door opening, The "L" type door opens to the left and to the right,Three doors.
- □ → （灭菌舱内径规格：宽 / 深 / 高，mm）
  (Inner diameter specifications of the sterilization chamber: width/depth/height, mm).
- VHPB → 汽化过氧化氢灭菌传递舱 Vaporized hydrogen peroxide sterilization pass box

## 型号规格：
## Model Specifications:

| 规格 / 型号 Specifications/Model | 外形尺寸 (W*D*H)mm Overall dimensions(W * D * H) mm | 内舱尺寸 (W*D*H)mm Inner cabin dimensions (W * D * H)mm | 排风接口 Exhaust air interface | 新风口 fresh air inlet | 电源 power supply | 最大功耗 KW Maximum Power Consumption |
|---|---|---|---|---|---|---|
| VHPB-400/500/500 | 1050*600*1800 | 400*500*500 | φ133 | | AC220V /50HZ | 3.5 |
| VHPB-500/500/500 | 1050*600*1800 | 500*500*500 | φ133 | | | |
| VHPB-600/600/600 | 1150*700*1850 | 600*600*600 | φ133 | | | |
| VHPB-700/700/700 | 1300*800*2000 | 700*700*700 | φ133 | | | |
| VHPB-800/800/800 | 1400*900*2100 | 800*800*800 | φ133 | | AC220V /50HZ AC380V /50HZ | 5.5 |
| VHPB-900/900/1000 | 1500*1000*2250 | 900*900*1000 | φ133 | | | |
| VHPB-1000/1000/1000 | 1600*1100*2250 | 1000*1000*1000 | φ133 | | | |
| VHPB-1200/1000/1000 | 1800*1100*2250 | 1200*1000*1000 | φ133 | | | |
| VHPB-1200/2000/1800 | 1800/2100/2450 | 1200*2000*1800 | φ203 | | | 6.5 |

# VHPB灭菌传递舱
# VHP sterilizer pass box

## 性能参数：
## Performance Parameters:

| | | | |
|---|---|---|---|
| 材 质<br>material | 316 不锈钢拉丝板<br>316 stainless steel wire drawing plate | 压缩空气<br>compressed air | 0.6-0.8Mpa |
| 灭菌剂<br>Sterilizer | 优于浓度 30%食品级过氧化氢溶液<br>Better than 30% food-grade hydrogen peroxide solution | VHP 残留除去效率<br>VHP residue removal efficiency | ≤1PPM, 不超过 20min<br>≤1 PPM, no more than 20 minutes |
| 送风等级<br>Air supply level | CLASS A | 汽化温度<br>Vaporization temperature | ≤100℃ |
| 泄漏率<br>Leakage rate | ≤0.5%VOL/h（在 100Pa 下）<br>≤0.5% VOL/h (under 100 Pa) | 噪音<br>Noise | ≤70dB(A) |
| 换气次数<br>Number of air changes | ≧80T/h | 控制方式<br>control mode | 手动或自动<br>Manual or automatic |
| 气流量<br>Air flow | 0.5m³/h | 灭菌效率<br>Sterilization efficiency | 6lg@ 总灭菌时间≤90min<br>6lg @ total sterilization time ≤ 90 minutes |
| 灭菌时间<br>sterilization time | ≤60min | 灭菌剂重量范围<br>Range of Sterilant Weight | 50g~500g |

## 技术特点：
## Technical characteristics:

- **自动检漏：**对舱体内充气，检测系统是否保持密闭，如达到密闭要求才进入灭菌程序，如没有达到密闭要求，继续充气密闭，再检漏，如此循环，直到满足密闭条件。
- **灭菌液缺报警：**自动判断灭菌液是否够一次完整的灭菌流程，如果灭菌液量不够会提示报警。
- **独特的除湿方式：**在预热和灭菌过程中不需除湿剂保持舱内低湿度。
- **高效的闪蒸方法：**高精度的闪蒸温度控制，使过氧化氢闪蒸时0分解，过氧化氢高效蒸发。
- **快速分解和除残留：**高效的过氧化氢等离子分解器，不仅能将空间悬浮的过氧化氢分解，也能将表面的过氧化氢分解，除残留快速、彻底，无需外排。
- **灭菌过程全程记录：**自动检测灭菌浓度，自动绘制灭菌过程曲线。
- **双门电子互锁功能：**设备在检漏、灭菌、除残留状态时两门均打不开，除残留达到安全浓度后才能开启高洁净度级别侧门。两门不可同时开启。
- **舱内表面抑菌处理：**内舱表面采用特殊处理，能达到灭菌、抑菌的作用，使内舱表面永无微生物的藏生地。
- **符合计算机化验证的软件系统：**系统具有审计追踪和电子签名功能。符合FDA 21CFR Part 11的审计要求。
- **可配置紫外线杀菌灯：**在不需要VHP灭菌时采用紫外消毒。

- **Automatic leak detection:** inflate the cabin and check whether the system is closed. If the airtight requirements are met, the sterilization process will be started. If the airtight requirements are not met, continue to inflate and seal, and then leak detection, and so on, until the airtight conditions are met.
- Sterilization liquid shortage alarm: automatically judge whether the sterilization liquid is sufficient for a complete sterilization process. If the sterilization liquid is in sufficient, an alarm will be prompted.
- **Unique dehumidification method:** dehumidifier is not required to maintain low humidity in the cabin during preheating and sterilization.
- **Efficient flash method:** high-precision flash temperature control enables hydrogen peroxide to decompose and evaporate efficiently during flash.
- **Rapid decomposition and residue removal:** the efficient hydrogen peroxide plasma decomposer can not only decompose the hydrogen peroxide suspended in space, but also decompose the hydrogen peroxide on the surface. Except for the residue, it is fast and complete, and does not need to be discharged.
- **Record the whole process of sterilization:** automatically detect the sterilization concentration and automatically draw the sterilization process curve.
- **Double-door electronic interlock function:** when the equipment is in the state of leak detection, sterilization and residue removal, both doors cannot be opened. Only after the residue removal reaches the safe concentration can the side door of high cleanliness level be opened. The two doors cannot be opened at the same time.
- **Bacteriostatic treatment of the interior surface of the cabin:** the interior surface is treated with special treatment, which can achieve sterilization and bacteriostasis, and make the interior surface free of microbial breeding ground forever.
- Software system conforming to computerized verification: the system has the function of audit trail and electronic signature. Comply with the audit requirements of FDA 21CFR Part 11.
- **Configurable ultraviolet disinfection lamp:** ultraviolet disinfection is used when VHP sterilization is not required.








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# 细胞制备隔离器
# Cell Processing Isolator

## 产品简介:

无菌细胞隔离器是一种在无菌环境下进行细胞制取、提取、观察和培养的专用设备；既要除去外包微生物、又要使细胞免受伤害和污染；既要使细胞快速生长、又要最大限度使人员及环境在生产过程中为无菌状态；是一种多功能的环境工艺设备。

## PRODUCT INTRODUCTION:

Aseptic cell isolator is dedicated equipment for cell preparation, extraction, observation and cultivation under sterile conditions. It is designed to eliminate external microbial contaminants while protecting cells from damage and contamination, facilitate rapid cell proliferation, and maintain maximum sterility for operators and surrounding environments throughout production. It serves as a multi-functional environmental process unit.







VHP灭菌对接舱
VHP Sterilizable Interface Chamber




VHP灭菌传递舱
VHP PassBox




细胞离心机
Cell Centrifuge




细胞操作舱
Cell Operation Chamber

# 细胞制备隔离器
# Cell Processing Isolator

## 系统组成：
## SYSTEM COMPOSITION:

细胞制备无菌隔离系统由无菌隔离器、蜂巢细胞培养系统、转运系统、信息管理系统等几部分组成。无菌隔离器内既配置离心机、移液系统、配液系统、取样显微系统等等，也配置了灭菌系统、除残留系统、层流系统、控制和监测系统。既有自动机械手操作，也有手套人工配合运行。

蜂巢培养系统包括可移动培养箱、二氧化碳培养系统、蜂巢架等几部份组成。

The aseptic cell preparation isolation system consists of an aseptic isolator, honeycomb cell culture system, transfer system and information management system.

Installed inside the aseptic isolator are a centrifuge, pipetting system, liquid preparation system, sampling microscopic system, as well as sterilization system, residual vapor removal system, laminar flow system, control and monitoring system. The equipment supports both automatic robotic manipulator operation and manual manipulation via operating gloves.

The honeycomb culture system comprises mobile incubators, $CO_2$ incubation systems and honeycomb racks.

## 主要特点：
## MAIN FEATURES:

1.自动检漏功能：自动检测密封性。
Automatic Leak Test Function: Automatically detect equipment tightness.

2.传递舱物品传递：传递舱台面设置电动传递系统，物品放在托盘内，当需要传递时，系统开启电动移门，托盘由电动推进至操作舱，方便操作人员取用。取完后，系统退回传递舱，关闭电动移门。
Material Transfer via PassBox: An electric transfer system is installed on the work surface of the PassBox. Goods are placed on the carrier tray. For material transfer, the system opens the motor-driven sliding door and electrically pushes the tray into the operation chamber for convenient access by operators. After material retrieval, the tray retracts automatically back into the PassBox, and the motor-driven sliding door closes.

3.细胞培养箱的对接：操作舱左右二侧设置培养箱对接口，与培养箱密闭对接，同时在舱内侧设置密封电动门，保证操作舱的密闭性。
Incubator Docking: Incubator docking ports are arranged on both left and right sides of the operation chamber for hermetic connection with incubators. Sealed motor-driven doors are equipped inside the chamber to maintain tight sealing of the operation chamber.

4.离心机与操作舱的对接：离心机安装与隔离器下部，便于离心机的操作。
Centrifuge Docking with Operation Chamber: The centrifuge is mounted underneath the isolator to facilitate convenient operation.

5.全自动智能控制，对控制过程记录，每个部件工作状态显示，报表输出，报警提示，所有程序过程符合计算机化验证。
Fully Automatic Intelligent Control: The system features full-process recording, real-time working status display of each component, report generation and alarm prompting. All programmed processes comply with computerized system validation requirements.

6.采用低功耗的EC风机，节能高效。
Low-power EC fans are adopted for energy saving and high efficiency.

## 控制系统：
## CONTROL SYSTEM:

控制系统分为：系统检测和预处理系统、洁净送风系统、密封系统、灭菌除残留系统、在线检测系统 细胞培养系统、监控系统、细胞培养操作系统。

1. 系统检测预处理系统：主要完成对隔离器的密封性检测、对每个系统和部件的整体诊断，灭菌前的预处理。
2. 洁净送风系统：洁净环境保持在动态A级环境。同时在线检测送风高效阻力，送风风速，内外压差，并通过控制系统对送风量、新风阀、排风阀进行控制。
3. 密封系统：主要对门的密封、阀的密封的控制管理和检测。灭菌及除残留系统：灭菌系统的控制与管理，除残留的控制与管理，记录灭菌过程和除残留过程。
4. 在线检测系统：对灭菌过程中气化过氧化氢浓度的在线检测、对A级环境的悬浮粒子在线检测、对浮游菌在线采样，并记录形成报表。
5. 细胞培养系统：在细胞培养过程中控制细胞的培养的环境，控制温湿度、二氧化碳浓度、氧浓度、压力满足细胞培养的要求，并记录形成报表。
6. 监控系统：在操作过程中，监控记录操作的每个过程。
7. 细胞培养操作系统：细胞培养操作过程控制，并记录形成报表。

The control system consists of seven subsystems: System Inspection & Preprocessing System, Clean Air Supply System, Sealing System, Sterilization & Residue Removal System, In-line Monitoring System, Cell Culture System and Cell Culture Operation System.

**System Inspection & Preprocessing System:**It mainly performs isolator airtightness test, overall fault diagnosis of all subsystems and components, and preconditioning prior to sterilization cycles.

**Clean Air Supply System:**Maintains dynamic Class A cleanliness inside the working enclosure. The system continuously monitors HEPA filter differential pressure, supply air velocity and internal-external chamber pressure in real time; the controller regulates supply air volume, fresh air damper and exhaust damper accordingly.

**Sealing System:**Responsible for monitoring and controlling sealing performance of all access doors and valves.

**Sterilization & Residue Removal System:**Controls and manages VHP sterilization and post-decontamination residual elimination, and archives full-process data of sterilization and residual removal cycles.

**In-line Monitoring System:**Carries out real-time measurement of vaporized hydrogen peroxide concentration during decontamination, in-situ airborne particle counting for Class A environment and on-line viable airborne bacteria sampling; all measured data is logged for automatic report generation.

**Cell Culture System:**Regulates incubation ambient parameters including temperature, relative humidity, $CO_2$ concentration, oxygen concentration and chamber pressure to meet specified cell culture requirements, with all historical data saved for report output.

**Supervision & Monitoring System:**Tracks and archives all operational steps throughout the entire production workflow.

**Cell Culture Operation System:**Controls all automated cell processing workflows and records relevant data to generate formal reports.

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# STI系列无菌检查隔离器
# STI series sterile test isolator

发明专利:ZL201610220343.8 实用新型专利：ZL201320372742. 8 ZL201620300583.4 ZL201620538698.7
Invention patent:ZL201610220343.8 Utility model patent:: ZL201320372742. 8 ZL201620300583.4 ZL201620538698.7



## 产品简介：

STI系列无菌检查隔离器是一种既要除去外包微生物污染的、隔离的、无人员污染的系统，又要保持洁净度A级环境的受控洁净微环境，它配备有专用的过氧化氢VHP灭菌器、灭菌后除残留系统、无菌送风系统、密闭舱系统、专用的HMI操作和记录系统和计算机化验证系统软件，该无菌隔离器广泛用于制药、医疗、卫生、生物试验等场所的无菌隔离操作。采用ISOLATOR安全等级保证药品放行降低环境运行成本。

## PRODUCT INTRODUCTION:

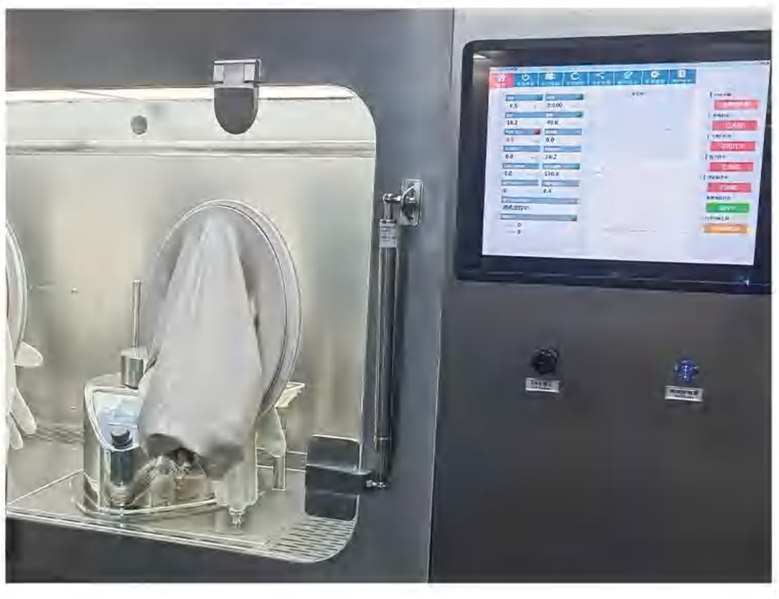
STI series sterile test isolator is a controlled clean micro-environment that not only removes the external microbial contamination, isolation, and non-personnel contamination, but also maintains the cleanliness level A environment.
It is equipped with a special hydrogen peroxide VHP sterilizer, a residue removal system after sterilization, a sterile air supply system, a closed cabin system, a special HMI operation and recording system, and a computerized verification system software.
The sterile isolator is widely used in pharmaceutical, medical,sterile isolation operation in sanitary, biological test and other places.

## 技术特点：
## TECHNICAL FEATURES:

- **自动检漏**：对舱体内充气，检测系统是否保持密闭，如达到密闭要求才进入灭菌程序，如没有达到密闭要求，继续充气密闭，再检漏，如此循环，直到满足密闭条件。
- **高效的闪蒸方法**：高精度的恒温系统保证过氧化氢蒸发时 0 分解，过氧化氢 100% 形成蒸汽。
- **快速除残留**：配置的过氧化氢分解器，不仅能快速、彻底将空间过氧化氢分解，而且能将表面的过氧化氢残留分解。
- **灭菌过程记录**：自动检测灭菌浓度，自动绘制灭菌过程曲线。
- **门互锁功能**：设备在运行过程中门均打不开。
- **舱内表面抑菌处理**：内舱表面采用抑菌处理，能达到灭菌、抑菌的作用，使内舱表面永无微生物的藏生地。
- **符合计算机化验证软件**：系统具有审计追踪、电子签名、数据完整性功能。
- **下装式特点**：下装式传递舱结构紧凑，占地面积小，易操作。

**Automatic Leak Detection:** Inflate the cabin to check whether the system remains airtight. If the airtight requirement is met, the sterilization procedure will commence. If not, continue to inflate for airtightness, then conduct leak detection again. Repeat this cycle until the airtight condition is satisfied.
**High - efficiency Flash Evaporation Method:** A high - precision constant - temperature system ensures 0 decomposition of hydrogen peroxide during evaporation, enabling 100% of hydrogen peroxide to form steam.
**Rapid Residue Removal:** The equipped hydrogen peroxide decomposer can not only quickly and thoroughly decompose hydrogen peroxide in the space but also break down the hydrogen peroxide residues on the surface.
**Sterilization Process Recording:** Automatically detect the sterilization concentration and automatically plot the sterilization process curve.
**Door Interlock Function:** The doors of the equipment cannot be opened during operation.
**Antibacterial Treatment of the Inner Cabin Surface:** The inner cabin surface is treated with antibacterial measures, which can achieve the effects of sterilization and antibacterial, preventing the growth of microorganisms on the inner cabin surface forever.
**Compliance with Computerized Validation Software:** The system has functions such as audit trail, electronic signature, and data integrity.
Bottom - loading Feature: The bottom - loading transfer chamber has a compact structure, occupies a small area, and is easy to operate.



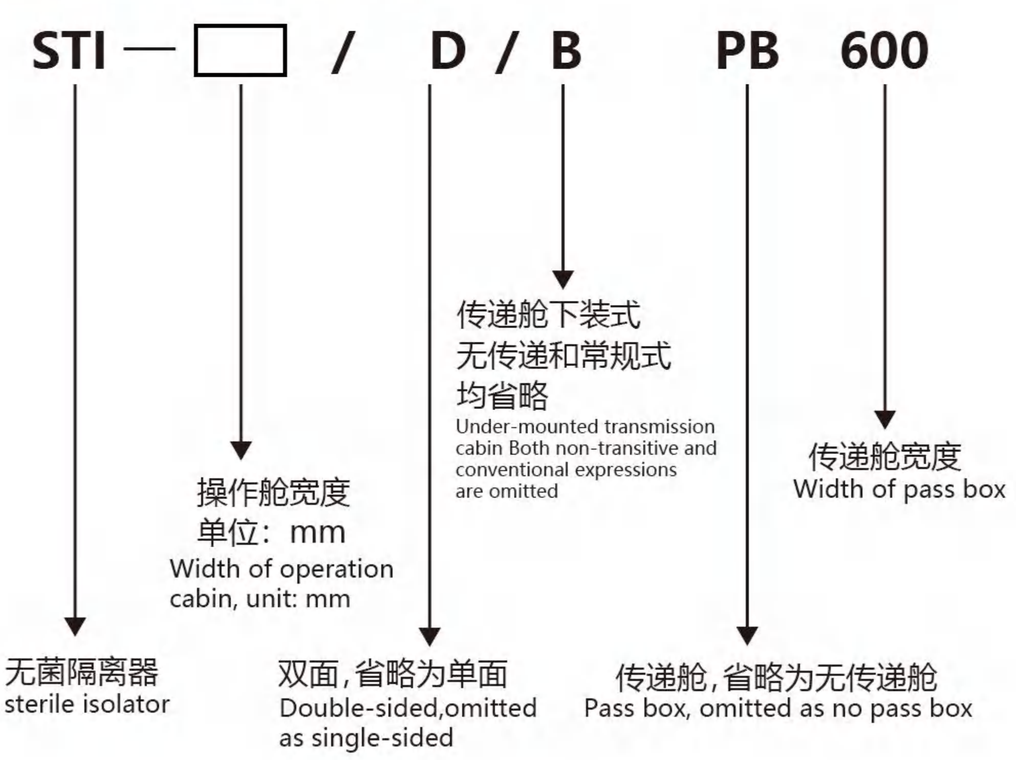


# STI系列无菌检查隔离器
# STI series sterile test isolator

## 性能参数：
## MODEL DESCRIPTION:

| | |
|---|---|
| 材质<br>Material | 外部全 304 不锈钢，内部腔体 316L 不锈钢<br>All 304 stainless steel outside and 316L stainless steel inside |
| 洁净等级<br>Cleanliness level | CLASS A |
| 风速<br>Wind speed | 0.45m/s±20% |
| 泄漏率<br>Leakage rate | ≤0.5%VOL/h( 在 100pa 以下 )<br>≤ 0.5% VOL/h (below 100pa) |
| 排气量<br>Exhaust volume | ≥300m³/h |
| 压力控制范围<br>Pressure control range | -100pa~+100pa |
| 灭菌效率<br>Sterilization efficiency | 6lg |
| VHP 除残留效率<br>VHP residue removal efficiency | ≤1PPM |
| 控制方式<br>Control mode | 手动或自动<br>Manual or automatic |
| 噪音<br>Noise | ≤68dB(A) |
| 照度<br>Illumination | ≥350LUX |

## 型号说明：
## MODEL DESCRIPTION:




## 型号规格：
## MODEL SPECIFICATION:

| 型号 / 参数<br>Model/Parameter | 外形尺寸 (mm)<br>Overall dimension (W*D*H)mm | 操作舱尺寸 (mm)<br>Operation cabin size(W*D*H)mm | 传递舱尺寸 (mm)<br>Size of transfer cabin(W*D*H)mm | 电源<br>Power supply | 压缩空气量<br>Compressed air volume | 说明<br>Explain |
|---|---|---|---|---|---|---|
| STI-1200 | 1600*880*2250 | 1195*680*700 | | AC220V/3.5KW | ≥0.6Mpa | 单人单舱<br>Single - person, single - cabin |
| STI-1200/BPB600 | 1600*880*2250 | 1195*680*700 | 600*680*700 | | | 单人双舱<br>Single - person, double - cabin |
| STI-1500D/BPB600 | 2100*1200*2250 | 1495*1195*700 | 600*680*700 | | | 单人双舱双面<br>Single - person, double - compartment, double - sided |
| STI-1800 | 2200*880*2250 | 1795*680*700 | | AC220V/5.5KW | | 双人单舱<br>Double - person, single - cabin |
| STI-1800/BPB600 | 2200*880*2250 | 1795*680*700 | 600*680*700 | | | 双人双舱<br>Double - person, double - cabin |
| STI-1800/PB600 | 2800*880*2250 | 1795*680*700 | 600*680*700 | | | |
| STI-1800D/BPB600 | 2200*1200*2250 | 1795*1195*700 | 600*680*700 | | | 双人双舱双面<br>Double - person, double - cabin, double - sided |

## 客户案例：
## CUSTOMER CASES:








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# 无菌分装隔离系统
# Sterile subpackage isolation system

## 产品简介:

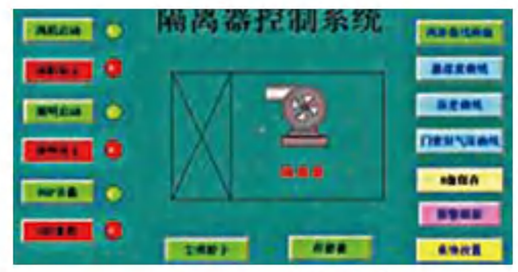
分装无菌隔离器系统包括以下几个部分：无菌隔离操作区域，物料传递区域，袋进袋出污染物收集处理器，气动密封系统，控制系统，监测系统，配套 VHP 灭菌系统。
按工艺作用分为：生产型，称量取样型，无菌投料型，无菌灌装型等等。主要用于制剂产品及原辅料的无菌灌装、称量、取样、分装、包装等工艺环节。
隔离舱组成：接受舱，分装舱，盖内盖舱，轧盖舱，出料舱，
主要配置：电动滚筒，振动分装机，电子称，轧盖机，VHP 灭菌系统，自动抱桶机，光电感应自动移门，捕尘器

## PRODUCT INTRODUCTION:

The filling aseptic isolator system consists of the following parts: aseptic isolation operation area, material transfer area, bag-in -bag-out pollutant collection and processor, pneumatic sealing system, control system, monitoring system, and a supporting VHP sterilization system.
According to the technological functions, it can be classified into: production type, weighing and sampling type, aseptic feeding type, aseptic filling type, etc. It is mainly used in the technological processes such as aseptic filling, weighing, sampling, filling, and packaging of pharmaceutical preparations, raw materials, and auxiliary materials.
Composition of the isolation cabin: receiving cabin, filling cabin, inner - cover - putting cabin, capping cabin, discharging cabin.
Main configurations: electric drum, vibrating filling machine, electronic scale, capping machine, VHP sterilization system, automatic barrel - holding machine, photoelectric - induction automatic sliding door, dust collector.



振动分装机
Vibrating filling machine




计量控制系统
Metering control system

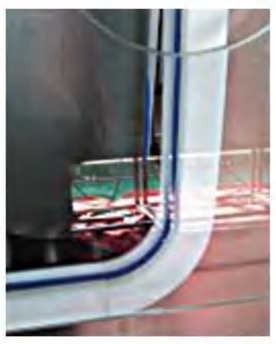




气动隔离门
Pneumatic isolation door



扎盖机
Capping machine



充气密封门
Inflatable sealed door



电动滚筒
Electric drum

# 无菌分装隔离系统
# Sterile subpackage isolation system

## 技术特点:

**双门传递技术：**保证洁净空间不受物料传递和人员操作的影响，解决传统无菌室100级洁净度无法持续保持的难题。
**监控系统：**在线监测隔离器的压力、温度、湿度、洁净度，浮游菌，风速，排气量等运行参数，符合GMP/GLP管理要求。
**控制系统：**微电脑自动控制，大屏幕触摸人机界面，符合计算机化验证软件。
**正负压可调节：**可满足毒性物质防护要求，防止污染。
**密封方式**：双层密封，做到0泄露。
**杀菌模式：**臭氧或汽化过氧化氢(VHPS)两种模式可供选择配置。

## TECHNICAL FEATURES:

**Double - door transfer technology:** Ensures that the clean space is not affected by material transfer and personnel operations, and solves the problem that the 100 - class cleanliness of traditional aseptic rooms cannot be continuously maintained.
**Monitoring system:** Online monitoring of operating parameters of the isolator, such as pressure, temperature, humidity, cleanliness, planktonic bacteria, wind speed, and exhaust volume, which meets the management requirements of GMP/GLP.
**Control system:** Automatically controlled by a microcomputer, with a large - screen touch - type human - machine interface, compliant with computerized validation software.
**Adjustable positive and negative pressure:** Can meet the protection requirements for toxic substances and prevent pollution.
**Sealing method:** Double - layer sealing to achieve zero leakage.
Sterilization modes: Two modes, ozone or vaporized hydrogen peroxide (VHPS), are available for configuration.

## 客户案例:
## CUSTOMER CASES:










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# VHPS系列过氧化氢灭菌器
# VHPS Series Hydrogen Peroxide Sterilizer

## 产品简介:
## PRODUCT INTRODUCTION:

VHPS 系列过氧化氢灭菌器是将 H2O2 溶液（即双氧水）通过汽化器形成过氧化氢蒸汽，通过管道输送到待灭菌的空间进行生物除污的设备，广泛应用于密闭空间的常温灭菌，包括传递舱、灌装机、冻干机、隔离器、洁净间，等等场所。

VHPS Series Hydrogen Peroxide Sterilizeris an equipment that forms hydrogen peroxide steam from H202 solution (i.e.hydrogen peroxide) through vaporizer, and then transmits it to the space to be sterilized through pipeline for biological decontamination. It is widely used for room temperature sterilization of confined space, including transfer tank, filling machine, freeze-drying machine, isolator, clean room and other places.

## 使用环境:
## USE ENVIRONMENT:

- 环境温度：10℃～ 40℃;
  Ambient temperature: 10℃ - 40℃
- 相对湿度：0-85% RH;
  Relative humidity: 0 - 85% RH
- 电压 AC220V+10%；频率 50Hz±1Hz；有效接地;
  Voltage: AC220V + 10%; Frequency: 50Hz ± 1Hz; Effective grounding
- 无扬尘、烟气环境，
  Dust - free and smoke - free environment
- 环境粉尘浓度不大于 100000 颗 /ft³。
  Ambient dust concentration not exceeding 100,000 particles/ft³



## 型号说明:
## MODEL DESCRIPTION:

VHPS —— ⬭ —— A

无字母：触摸屏自动控制，无高效，A:自动控制，工业触摸电脑控制，高效过滤；B:简易配置，无浓度检测，无除残留。
No letters: Touch - screen automatic control, no HEPA filter.
A: Automatic control, controlled by industrial touch - screen computer, with HEPA filter.
B: Simple configuration, no concentration detection, no residue removal.

50：额定汽化量为≥5(mL)/min　50: The rated vaporization capacity is ≥5 (mL)/min.
100：额定汽化量为≥10(mL)/min　100: The rated vaporization capacity is ≥10 (mL)/min.
200：额定汽化量为≥20(mL)/min　200: The rated vaporization capacity is ≥20 (mL)/min.
500：额定汽化量为≥50(mL)/min　500: The rated vaporization capacity is ≥50 (mL)/min.

过氧化氢灭菌器
Hydrogen peroxide sterilizer



## 触摸屏界面:
## TOUCH - SCREEN INTERFACE:




登录界面
Login interface




主界面
main interface



手动界面
manual interface




报警界面
alarm interface

## 工作原理:
## WORKING PRINCIPLE:

灭菌器，是利用过氧化氢在常温下气体状态比液体状态更具杀孢子能力的优点，经生产游离得氢氧基，用于进攻细胞成分，包括脂类、蛋白质和 DNA 组织，达到完全灭菌的要求。
灭菌器是将浓度为 30%~35% 的过氧化氢溶液，即双氧水通过汽化器汽化成过氧化氢蒸汽，并通过管道输入到密闭空间内进行消毒灭菌的设备。

VHPS Series Hydrogen Peroxide Sterilizer takes advantage of the fact that hydrogen peroxide in a gaseous state at room temperature has a greater sporicidal ability than in a liquid state. Free hydroxyl groups are generated during production, which attack cellular components, including lipids, proteins, and DNA structures, meeting the requirements for complete sterilization.
The sterilizer is a device that vaporizes a hydrogen peroxide solution with a concentration of 30% - 35% (i.e., hydrogen peroxide) into hydrogen peroxide vapor through a vaporizer, and then inputs it into an enclosed space through pipelines for disinfection and sterilization.

# VHPS系列过氧化氢灭菌器
# VHPS Series Hydrogen Peroxide Sterilizer

## 性能参数:
## PERFORMANCE PARAMETERS:

| 项目 / 型号<br>Item / Model | VHPS-50 | VHPS-100 | VHPS-200 | VHPS-500 |
|---|---|---|---|---|
| 额定汽化量<br>Rated vaporization capacity | 0~5g/min | 0~10g/min | 0~20g/min | 0~30g/min |
| 风量<br>Air volume | 60m³/h | 120m³/h | 200~250m³/h | 700m³/h |
| 灭菌因子<br>Sterilization factor | 过氧化氢蒸汽<br>Hydrogen peroxide vapor | | | |
| 生物除污能力<br>Biological decontamination ability | 6Lg | | | |
| 电源<br>Power supply | AC220V,50Hz | | | |
| 闪蒸功率<br>Flash evaporation power | 2.5kw | 12kw | 18kw | 35kw |
| 重量(kg)<br>Weight(kg) | 150 | 200 | 300 | 400 |
| 外形尺寸w*d*h(mm)<br>Overall dimensionsw*d*h (mm) | 600*720*1150 | 740*870*1150 | 1200*900*1950 | 1400*1150*1950 |

## 技术特点:
## TECHNICAL FEATURES:

**1. 四大独特技术:**

· 高精度闪蒸温度控制技术：高精度温度控制，保证过氧化氢蒸发时不会分解，提高过氧化氢的灭菌效率。

· 高效的生物除污能力：因送风风量大，能将汽化的 VHP 快速送入空间，使 VHP 在空间迅速扩散，灭菌时间短灭菌效率高。

· 除残留功能独特：采用过氧化氢去除器能快速将过氧化氢蒸汽还原为水和氧气，除残留时间短效率高。

· 计算机化验证软件：记录灭菌过程的 VHP 浓度、闪蒸温度、温湿度参数、过氧化氢重量等参数的变化，形成报表。

**2. 功能特点:**

· 灭菌范围广，空间大，可对大空间快速均匀灭菌;
· 灭菌参数记忆保存功能，灭菌时直接调出即可;
· 残留物少，通过过氧化氢分解器，最终分解为水与氧气;
· 灭菌时间短，运行成本低;
· 定时开机，可预约时间，可设置灭菌时间;
· 具有组网功能，能通过网络控制灭菌进程，多台可组成局域网。




灭菌浓度曲线报表
Sterilization Concentration Curve Report

**1. Four unique technologies:**

·High - precision flash evaporation temperature control technology: High - precision temperature control ensures that hydrogen peroxide does not decompose during evaporation, improving the sterilization efficiency of hydrogen peroxide.
·High - efficiency biological decontamination ability: Due to the large air supply volume, the vaporized VHP (Vaporized Hydrogen Peroxide) can be quickly sent into the space, enabling VHP to spread rapidly in the space. This results in a short sterilization time and high sterilization efficiency.
·Unique residue removal function: The use of a hydrogen peroxide remover can quickly reduce hydrogen peroxide vapor back to water and oxygen, with a short residue removal time and high efficiency.
·Computerized verification software: Records the changes in parameters such as VHP concentration, flash evaporation temperature, temperature and humidity parameters, and hydrogen peroxide weight during the sterilization process, and generates reports.

**2. Functional features:**

·Wide sterilization range and large space applicability. It can quickly and evenly sterilize large spaces.
·Has the function of memorizing and saving sterilization parameters, which can be directly retrieved during sterilization.
·Produces few residues. Through the hydrogen peroxide decomposer, it is ultimately decomposed into water and oxygen.
·Short sterilization time and low operating cost.
·Can be set to turn on at a scheduled time, with the ability to reserve time and set the sterilization time.
·Has a networking function, enabling the control of the sterilization process through the network. Multiple units can form a local area network.

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# AD-15雾化消毒机
# AD-15 atomizing disinfection machine

## 产品简介:
## PRODUCT INTRODUCTION:

AD 系列过氧化氢消毒机，是利用微米级过氧化氢雾在常温下表面积更大，杀孢子能力超强的特点，用于进攻细胞成分，包括脂类、蛋白质和 DNA 组织，能高效快速转化为 $H_2O/O_2/CO_2$，达到快速消毒的目的。
AD 系列过氧化氢消毒机是将过氧化氢溶液通过雾化器形成微米级气溶胶、通过旋流喷管输送到待消毒的空间进行消毒的设备。
使用的过氧化氢过氧化氢溶液浓度：3%~8%。

The AD series atomizing disinfection machine utilizes the characteristics of hydrogen peroxide mist at the micron level, which has a larger surface area at room temperature and extremely strong spore-killing ability. It is used to attack cellular components, including lipids, proteins, and DNA tissues, and can be efficiently and rapidly converted into $H_2O$, $O_2$ and $CO_2$, thus achieving the purpose of rapid disinfection.
The AD series atomizing disinfection machine is a device that forms micron-level aerosols from the hydrogen peroxide solution through an atomizer and delivers them to the space to be disinfected via a swirling flow nozzle for disinfection.
The concentration of the hydrogen peroxide solution used: 3% to 8%.

## 技术特点:
## TECHNICAL FEATURES:

1.独特的雾化发生技术：在常温下通过雾化器将过氧化氢溶液体转化为雾状颗粒，不会改变消毒剂的成分结构。
Unique atomization generation technology: At room temperature, the hydrogen peroxide solution is converted into mist-like particles through an atomizer without changing the composition structure of the disinfectant.

2.气溶胶形成技术：在高速旋流下能将雾化的颗粒快速形成微米级（1-10um）的气溶胶，因气溶胶的表面积大，消毒效率更高。
Aerosol formation technology: Under high-speed swirling flow, the atomized particles can be rapidly formed into micron-level (1-10um) aerosols. Due to the large surface area of the aerosols, the disinfection efficiency is higher.

3.独特的远距输送技术：喷射管设置为螺旋结构，气流流过后形成螺旋柱状流体，能将消毒剂气溶胶输送距离远距，使消毒范围广泛、均匀。
Unique long-distance delivery technology: The injection tube is set in a spiral structure. After the air flow passes through, a spiral columnar fluid is formed, which can deliver the disinfectant aerosol over a long distance, making the disinfection range extensive and uniform.

## 型号说明:
## MODEL DESCRIPTION:

AD — □ A W

- W：网络连接，带通讯，可组网 Network connection, with communication function, and can be networked
- A：带浓度传感器自动控制 Automatic control with a concentration sensor
- □：额定雾化量（单位：g/min） Rated atomization amount (Unit: g/min)
- AD：雾化消毒机（Atomizing Disinfector）



## 性能参数:
## PERFORMANCE PARAMETERS:

| | |
|---|---|
| 消毒原理<br>Disinfection principle | 常温雾化，雾化颗粒：1~10um<br>Atomization at room temperature,atomized particles: 1-10 micrometers (μm) |
| 空间消毒效率<br>Spatial disinfection efficiency | ≥99.99%~99.9999% |
| 表面杀灭率<br>Surface killing rate | ≧3lg~6lg |
| 空气流量<br>Air flow rate | ≥80m³/h |
| 额定雾化量<br>Rated atomization capacity | 15g/min |
| 喷雾头数量<br>The number of spray heads | 1 |
| 消毒液容量<br>Capacity of disinfectant solution | 1L |
| 消毒最大时长<br>The maximum disinfection duration | 120min |
| 体积(L*W*H)mm<br>Volume(L*W*H)mm | 350*250*280 |
| 重量<br>Weight | 2.5kg |
| 功率<br>Power | 250W |
| 电源<br>Power supply | AC220V±22V 50Hz±1Hz |
| 适合消毒因子<br>Suitable disinfection factors | 过氧化氢溶液浓度：3~8%<br>Concentration of hydrogen peroxide solution: 3 - 8% |

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# GT-8W手套完整性测试仪
# GT-8W Glove Integrity Tester

实用新型专利：ZL201220002291. 4　ZL201220136991. 2　Utility model patent：ZL201220002291. 4　ZL201220136991. 2

## 产品简介:

GT-8W 手持式手套完整性测试仪是一种集高精度检测、无线通信、智能管理与便捷操作于一体，用于对手套箱隔离器、RABS 等设备上隔离手套完整性的高端便携式测试设备。

本测试仪依据 ISO 14644-7 国际标准设计，符合《中国药典》2020 年版及 21 CFR Part 11 电子记录与电子签名合规要求，采用高灵敏度压降法原理，通过内置高精度压力传感器与智能算法，实现对手套微小泄漏（最小可检测孔径达 200μm）的快速、无损检测。测试过程无需拆卸手套，真正实现在线原位检测，避免因拆装带来的二次污染风险与操作繁琐，大幅提升检测效率与安全性。

设备采用一体化便携式结构设计，整机轻量化，配备可拆卸锂电池与内置气泵，支持无线独立运行，适应各类移动检测场景。7 英寸彩色触摸屏搭载人性化 HMI 操作界面，支持多语言切换，参数设置、测试流程、压力趋势实时可视化，操作直观简便。系统内置四级用户权限管理、审计追踪、电子签名功能，确保数据真实、可追溯，满足 GMP 合规性要求。测试数据可本地存储超 10,000 组，并支持 USB 导出、Wi-Fi 无线传输，便于数据管理与审计审查。

测试仪外壳采用易清洁、耐腐蚀材质，表面光滑无死角，符合洁净区卫生标准；测试介质为空气，无污染风险适用于无菌制剂、细胞治疗、疫苗生产、高活性药物操作等多种高要求场景。

## Product Introduction:

The GT-8W handheld glove integrity tester is a high-end portable device that integrates high-precision detection, wireless communication, intelligent management, and user-friendly operation. It is designed for testing the integrity of isolation gloves on equipment such as glove boxes, isolators, and RABS.

This tester is designed in accordance with the ISO 14644-7 international standard, complying with the 2020 edition of the China Pharmacopoeia and the electronic record and electronic signature compliance requirements of 21 CFR Part 11. It adopts the principle of high-sensitivity pressure drop method utilizing built-in high-precision pressure sensors and intelligent algorithms to achieve rapid, non-destructive detection of glove micro-leaks (with a minimum detectable aperture of 200μm). The testing process requires no disassembly of gloves, truly enabling online in-situ detection, avoiding the risks of secondary contamination and cumbersome operations caused by disassembly and assembly, thereby significantly improving detection efficiency and safety.

The device features an integrated portable design with lightweight construction, equipped with detachable lithium batteries and a built-in air pump for wireless standalone operation, adaptable to various mobile testing scenarios. Its 7-inch color touchscreen displays a user-friendly HMI interface with multilingual support, enabling real-time visualization of parameter settings, test procedures, and pressure trends for intuitive operation. The system incorporates four-tier user permission management, audit trails, and electronic signature functions to ensure data authenticity and traceability, meeting GMP compliance requirements. It supports local storage of over 10,000 test data sets and provides USB export and Wi-Fi transmission capabilities for efficient data management and audit review.

The test instrument housing is constructed from easy-to-clean and corrosion-resistant materials, featuring a smooth surface with no dead zones, meeting the hygiene standards of clean areas. The testing medium is air, posing no pollution risk, and is suitable for various high-demand scenarios such as sterile preparations, cell therapy, vaccine production, and handling of highly active pharmaceuticals.



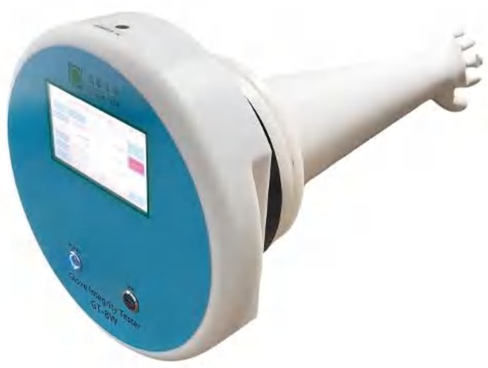
# GT-8W手套完整性测试仪
# GT-8W Glove Integrity Tester

## 主要特点:
## Main Features:

- ☑ 在线原位检测，无需拆卸，避免交叉污染和拆卸损坏。
  Online in-situ detection, no need for disassembly, avoiding cross-contaminationand damage from disassembly.
- ☑ 高精度压降法，灵敏度高，重复性好。
  High-precision pressure drop method, high sensitivity, good reproducibility.
- ☑ 无线便携设计，内置电源与气源，移动灵活。
  Wireless and portable design, with built-in power supply and air source, allowing for flexible mobility.
- ☑ 符合 ISO、GMP、21 CFR Part 11 等多重标准。
  Complies with multiple standards such as ISO, GMP, and 21 CFR Part 11.
- ☑ 智能数据管理，支持审计追踪与电子记录。
  Intelligent data management, supporting audit tracking and electronic recording.
- ☑ 人机交互友好，操作简便，维护成本低。
  Friendly human-computer interaction, easy operation, and low maintenance cost.
- ☑ 多台组网管理，支持多台数据集中管理。
  Multi-device networking management, supporting centralized management of multiple devices.
- ☑ 大容量低功耗的电源管理，单次充电连续工作超 10h。
  Power management with large capacity and low power consumption, capable of continuous operation for over 10 hours on a single charge.
- ☑ 具有自检功能。
  It has a self-checking function.











## 性能参数:
## Performance Parameters:

| 参数项目<br>Parameter item | 技术指标<br>Technical indicators |
|---|---|
| 检测原理<br>Detection Principle | 压降法<br>Pressure drop method |
| 充气压力范围<br>Inflation pressure range | 0 ~ 2000 Pa |
| 显示分辨率<br>Display resolution | 0.1 Pa |
| 测试时间<br>Test time | ≤1min |
| 检测精度(最小孔径)<br>Detection accuracy (minimum aperture) | ≤200μm |
| 测试模式<br>Test mode | 正压保持模式<br>Positive pressure holding mode |
| 测试介质<br>Test medium | 洁净空气<br>clean air |
| 存储容量<br>Storage capacity | 64G |
| 电源<br>Power supply | DC24V, 8Ah |
| 外形尺寸<br>Overall dimensions | φ380*150mm |
| 重量<br>Weight | 4.5kg |
| 充电时间<br>Charging time | 3.5 ~ 8小时(0%-100%)<br>About 8 hours (0%-100%) |

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# 手套完整性测试仪 Glove Integrity Tester

实用新型专利：ZL201220002291. 4　ZL201220136991. 2　Utility model patent：ZL201220002291. 4　ZL201220136991. 2

## 产品简介:
## PRODUCT INTRODUCTION:

GT 系列手套检漏仪是一种检测无菌手套泄漏率的仪器，广泛运用于 7 寸、8 寸、10 寸、半身衣等等橡胶手套和制品的泄漏检测，具有检测简单快速、检测准确、检测结果可视化。

The GT series glove integrity tester is an instrument for detecting the leakage rate of sterile gloves. It is widely used in the leakage detection of rubber gloves and products such as 7 - inch, 8 - inch, 10 - inch gloves, and half - body suits. It features simple and rapid detection, high accuracy, and visualizable test results.



GT-5(在线型)



GT-6(在线型)



GT-2(离线型)

## 型号说明:
## MODEL DESCRIPTION:

GT — 6 C / D2 / B - 7

- 7：7寸手套盘，10:10寸手套盘，8寸的省略。
  7: 7 - inch glove tray, 10: 10 - inch glove tray. The 8 - inch glove tray is omitted.
- 带电池，交流的不带电池的省略。
  Comes with a battery. The AC - powered version without a battery is omitted.
- 带两个手套检漏盘，带4个检漏盘：D4—个手套盘的省略。
  Comes with two glove leak - detection trays. Comes with four glove leak - detection trays: The version with one glove tray in D4 is omitted.
- 带审计追踪的计算机系统，普通触摸屏省略。
  Computer system with audit trail, common touchscreen omitted.
- 型号系列，2：离线，5：便携在线，6：移动立式在线。
  Model series, 2: Offline, 5: Portable online, 6: Mobile vertical online
- 手套检漏仪代号。 Code name of the glove leak detector.

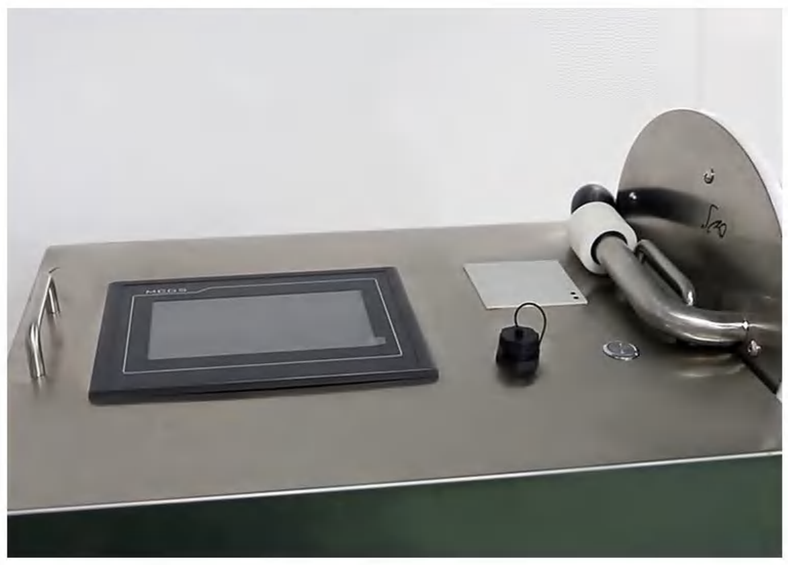
## 产品实拍:
## PRODUCT VIEWS:







# 手套完整性测试仪 Glove Integrity Tester











## 性能参数:
## PERFORMANCE PARAMETERS:

| 项目/参数 Item/Parameter | GT-2 | GT-5 | GT-5C | GT-5B | GT-6 | GT-6C/D2 | GT-6C | GT-6B |
|---|---|---|---|---|---|---|---|---|
| 电源 Power supply | AC220V50Hz | | DC24V | | AC220V50Hz | | DC24V | |
| 电池续航 Battery life | / | | | 4h | / | | | 4h |
| 功耗 Power consumption | 150W | 120W | | | 150W | | | |
| 检测方式 Detection method | 离线型 offline | 在线型 online | | | | | | |
| 人机界面 HMI | 触摸屏 touch screen | | 触摸电脑 windows system | | 触摸屏 touch screen | | 触摸电脑 windows system | |
| 数据储存 Data storage | 256组 256groups | | 50000组 50000groups | | 256组 256groups | | 50000组 50000groups | |
| 结构形式 Structural form | 可移动立式 movable vertical type | 便携式 portable | | | 可移动立式 movable vertical type | | | |
| 外形尺寸(mm) Overall dimension(mm) | 550*400*980 | 280*310*450 | | 270*310*350 | 500*400*980 | 600*600*1100 | | |
| 重量 Weight | 12kg | 7kg | 9kg | | 12kg | 14kg | 16kg | |
| 显示精度 Display accuracy | 0.1Pa/s | | | | | | | |
| 检测精度 Detection accuracy | 0.5Pa | | | | | | | |
| 重复性 Repeatability | 2%F.S | | | | | | | |
| 检测范围 Detection accuracy | 0--2000Pa | | | | | | | |
| 检测时间 Detection time | 0-999s | | | | | | | |
| 响应时间 Response time | 200ms | | | | | | | |

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# ISLT系列负压隔离器
# ISLT series negative pressure isolator

## 产品简介：
## PRODUCT INTRODUCTION:

负压隔离器是一款专为高风险生物环境设计的密闭式防护设备，通过主动形成内部负压环境，从根源上阻断病原微生物的扩散传播，为医护人员、实验人员及周边环境筑起一道坚不可摧的安全防线。其核心原理是利用专业通风系统使隔离舱内气压低于外部环境，空气仅单向流入舱内，且舱内污染空气需经高效过滤（HEPA 过滤效率≥99.995%）后才能排出，彻底杜绝交叉感染风险。一般，它由操作舱、连续套袋系统、RTP 阀系统、控制系统、清洗系统、灭菌系统、废液收集模块等几部分组成，用户可根据工艺需要来配置功能，主要应用于对人体或环境造成毒害和污染的操作工艺中，特别在抗肿瘤药、活性生物制品、动物试验等行业得到广泛运用。

Negative pressure isolator is an isolation and protection equipment with high tightness that forms negative pressure during process operation.Generally,it is composed of operation cabin, continuous bagging system,RTP valve system,control system,cleaning system,sterilization system,waste liquid collection module, etc.
Users can configure functions according to process requirements mainly used in the operation process that causes toxicity and pollution to human body or environment, especially in anti-tumor drugs Active biological products, animal testing and other industries have been widely used.



## 型号说明：
## MODEL DESCRIPTION:

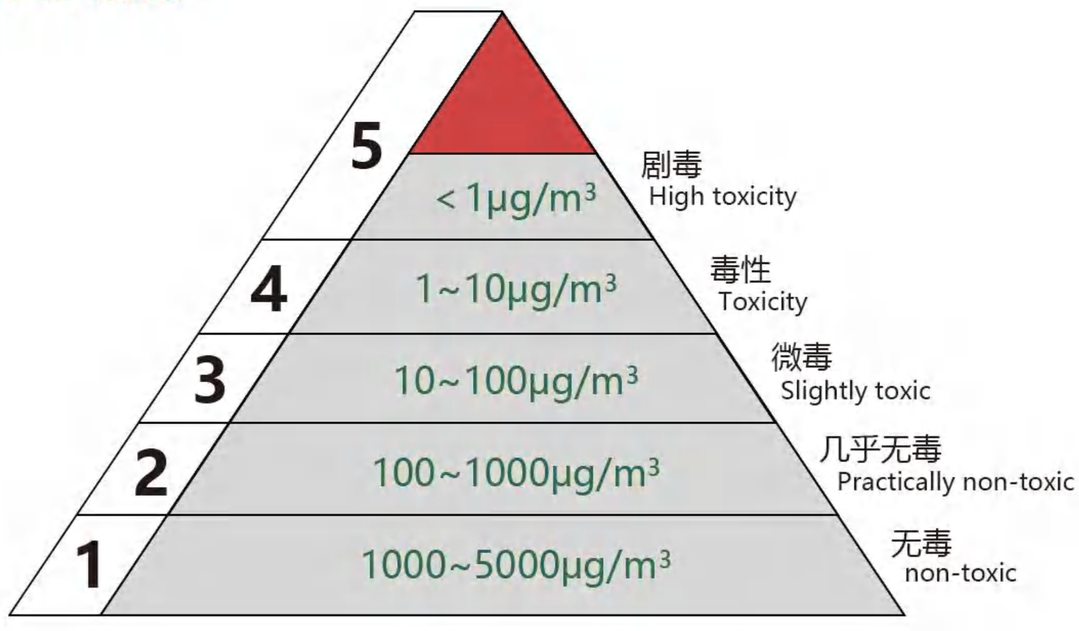
**ISLT —— 1800 / B-PB /BG /RTP /AB / 05**

- 负压隔离器代号。 Code of negative pressure isolator
- 操作舱宽度内尺寸，mm。 Internal width dimension of the operation cabin, unit: millimeter
- PB: 配置传递舱 ，无传递舱省略 ，B-PB: 安装在操作舱下方的传递舱，与操作舱左右并排安装的为 PB。
  PB: Configuration of Pass Box. Omit if there is no Pass Box.
  B - PB: The Pass Box installed below the operation cabin.
  The one installed side - by - side with the operation cabin on the left or right is PB.
- 配有连续套袋接口，无省略。
  It is equipped with a continuous bagging interface. There is no omission.
- 配有快速传递接口，无省略。
  Equipped with a rapid transfer interface. No omission.
- 配有 A/B 阀接口，无省略。
  Equipped with A/B valve interface，No omission.
- O5:OEB5 级，O4:OEB4 级。
  O5: OEB5 level, O4: OEB4 level

## 技术参数：
## PERFORMANCE PARAMETER:

| | |
|---|---|
| 送风过滤效率<br>Air supply filtration efficiency | 99.99%@0.3um |
| 排气过滤效率<br>Exhaust air filtration efficiency | 99.997%@0.3um |
| 舱体内负压范围<br>Negative pressure range in the cabin | -20~-150Pa |
| 换气次数<br>Air change rate | ≥20T/h |
| 保护等级<br>Protection level | OEB4,OEB5 |
| 电源<br>Power supply | AC220V,50Hz |
| 噪音<br>Noise | ≤65dB(A) |
| 照度<br>Illuminance | ≥350lux |

## OEB 等级：
## OEB level:



# ISLT系列负压隔离器
# ISLT series negative pressure isolator

## 技术特点：
## PRODUCT INTRODUCTION:

· 负压隔离器可以确保操作舱内的有害毒性物质不会泄漏至舱外。
· 负压隔离器可根据设定值自动调节舱内负压，并具备紧急情况应急响应功能，一旦检测到隔离器内部失压或有泄漏，将会自动响应调整，保证隔离器的气流从背景室进入隔离器，避免毒性物质的扩散。
· 结构合理紧凑，性价比高。
· 可配消毒灭活处理系统，达到消毒效果。
· 可配置带有呼吸功能的废液收集模块，避免毒性物质逸出污染环境。
· 排出的空气经过双层过滤保护，提高外排空气的安全性。

· The negative pressure isolator can ensure that harmful toxic substances in the operation cabin do not leak outside the cabin.
· The negative pressure isolator can automatically adjust the negative pressure inside the cabin according to the set value and has an emergency response function. Once the isolator detects internal pressure loss or leakage, it will automatically respond and adjust to ensure that the air flow of the isolator enters from the background room, thus avoiding the spread of toxic substances.
· It has a reasonable and compact structure, offering high cost - effectiveness.
· It can be equipped with a disinfection and inactivation treatment system to achieve disinfection effects.
· It can be configured with a waste liquid collection module with a breathing function to prevent the escape of toxic substances and environmental pollution.
· The exhausted air undergoes double - layer filtration protection, enhancing the safety of the exhausted air.

## 应用案例：
## APPLICATION CASES:







## 型号规格：
## MODEL SPECIFICATIONS:

| 型号<br>Model | 外形尺寸(mm)<br>Overall dimensions(mm) | 内尺寸(mm)<br>Internal dimensions (mm) | 说明<br>Instruction | 电源<br>Power supply |
|---|---|---|---|---|
| ISLT-1200/05 | 1200*680*2350 | 1195*650*800 | 2手套，单舱，OEB5级<br>Two gloves, single cabin, OEB5 level | AC220V50Hz,2.5KW |
| ISLT-1200/BPB/04 | | PB:500*400*500 | 2手套，下置传递舱，OEB4级<br>Two gloves, with a PassBox placed at the bottom, OEB4 level | |
| ISLT-1200/BPB/BG/05 | | 1195*650*800<br>PB:500*500*500 | 2手套，下置传递舱, 连续套袋，OEB5级<br>Two gloves, with a PassBox placed at the bottom, equipped with a continuous bagging system, OEB5 level | |
| ISLT-1500/BG/04 | 1500*680*2350 | 1495*650*800 | 3手套，配连续套袋，OEB4级<br>Three gloves, equipped with a continuous bagging system, OEB4 level | AC220V50Hz,2.8KW |
| ISLT-1800/04 | 1800*680*2350 | 1795*650*800 | 4手套，OEB4级<br>Four gloves, OEB4 level | AC220V50Hz,3.2KW |
| ISLT-1800/PB500/BG/05 | | 1795*650*800<br>PB:500*500*500 | 4手套，配连续套袋；配传递舱，OEB5级<br>Four gloves, equipped with a continuous baggingsystem and a PassBox, OEB5 level | |
| ISLT-1800/BPB/BG/05 | | 1795*650*800<br>PB:500*500*500 | 4手套，配连续套袋；下置传递舱，OEB5级<br>Four gloves, equipped with a continuous bagging system and a PassBox placed at the bottom, OEB5 level | |
| ISLT-1800/AB/05 | | 1795*650*800 | 4手套，配A/B阀，OEB5级<br>Four gloves, equipped with A/B valves, OEB5 level | |

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# BIBO袋进袋出过滤器
# BIBO bag in bag out filter

发明专利: ZL201711498552. X ZL201711498876. 3 Invention patent: ZL201711498552. X ZL201711498876. 3

## 产品简介:
## PRODUCT INTRODUCTION:

袋进袋出过滤器是一种安全无接触更换过滤器的装置，广泛的应用于各种高危险性或高活性、高毒性等领域，特别在生物及化学(NBC)防护、医院隔离病房、生物研究、遗传与生物技术实验室等行业对人员和环境保护起到核心作用。
袋进袋出安全过滤箱最大的特点是安装、更换、检测过滤器时均在 PVC 袋(或者高温袋)保护下进行，过滤单元完全不与外界空气接触，从而保证了人员与环境的安全，使得更换过程方便快捷。

Bag in bag out filter is a safe and contactless filter replacement device,which is widely used in various high-risk or high-activity, high-toxicity and othelfields,especially in biological and chemical(NBC) protection,hospital isolation wards biological research, genetic and biotechnology laboratories and other industries to play a central role inpersonnel and environmental protection.The biggest feature of the bag in bag out filter is that the installation,replacement and detection of the filter are carried out under the protection of pvc bags (or high temperature resistance), and the filter unit is completely free of contact with the outside air ,thus ensuring the safety of personnel and the environment,making the replacement process convenient and fast.

## 型号说明:
## MODEL DESCRIPTION:

BIBO — 3500 / F — 2H S V

- V：消毒灭菌接口，不带消毒接口省略 Disinfection and sterilization interface. Omit if there is no disinfection interface.
- S：送排风密闭阀，不带阀省略 Supply and exhaust air tight - shutoff valve. Omit if valve is not included.
- 2H：2H为2级高效过滤，1级高效过滤为H 2H represents the second - level high - efficiency filtration, and the first - level high - efficiency filtration is denoted as H.
- 3500：额定风量(m³/h) Rated air volume (m³/h)
- F：1级中效过滤器，无中效过滤器省略 1st - level medium - efficiency filter.Omit if there is no medium - efficiency filter.
- BIBO：袋进袋出过滤箱 bag in bag out




袋进袋出过滤器(单组)
Bag in bag out filter(single group)




袋进袋出过滤器(多组)
Bag in bag out filter(multiple group)

# BIBO袋进袋出过滤器
# BIBO bag in bag out filter

## 技术特点:
## TECHNICAL DESCRIPTION:

1. 独特的过滤器快装压紧机构，既具有自锁紧功能，保证过滤器压紧密封不松动，零泄漏，又能在保证安全性的前提下方便快捷装卸过滤器。
2. 配备每级过滤器的压差在线检测，监测过滤器的阻力，判断过滤器是否需要更换。
3. 配备手动在线检漏扫描装置，能对高效过滤器全方位无死角检漏。
4. 双层套袋密封装置，既保证更换口袋的密封和安全，又保证更换过滤器无泄漏。
5. 一体成型的密闭箱体，保证高密封性。

1. The unique quick - installation and compression mechanism for filters not only has a self - locking function to ensure that the filter is tightly sealed without loosening and with zero leakage, but also enables convenient and rapid installation and removal of the filter under the premise of ensuring safety.
2. It is equipped with on - line differential pressure detection for each level of filter to monitor the resistance of the filter and determine whether the filter needs to be replaced.
3. It is equipped with a manual on - line leak - detection scanning device, which can conduct a comprehensive and blind - spot - free leak - detection of the high - efficiency filter.
4. The double - layer bag - sealing device not only ensures the sealing and safety of the replacement bag, but also guarantees zero leakage during filter replacement.
5. The integrally - formed sealed box ensures high - level tightness.

## 性能参数:
## PERFORMANCE PARAMETERS:

| 项目/型号<br>Item/Model | BIBO-1800/FH | BIBO-3500/FH | BIBO-5000/F2H | BIBO-7000/FH |
|---|---|---|---|---|
| 额定风量($m^3/h$)<br>Rated air volume ($m^3/h$) | 1800 | 3500 | 5000 | 7000 |
| 泄漏率<br>Leakage rate | 0.5%VOL/h | | | |
| 过滤效率<br>Filtration efficiency | F8+H13 | | F8+H13+H13 | F8+H13 |
| 中效过滤器<br>Medium - efficiency filter | 595*295*50*① | 595*595*50*① | 595*295*50*① 595*595*50*① | 595*595*50② |
| 高效过滤器<br>HEPA | 595*295*292*① | 595*595*292*① | 595*595*292*① 595*295*292*① | 595*595*292*② |
| 外形尺寸(mm)<br>External dimensions (mm) | 700*530*1500 | 800*700*1650 | 800*1100*2450 | 800*1400*1950 |
| 重量(kg)<br>Weight(kg) | 120 | 160 | 195 | 265 |
| 接口尺寸<br>Interface size | 320*320 | 400*400 | 600*400 | 600*600 |

## 产品实拍:
## PRODUCT PHOTOS:





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# BSPB系列生物安全传递舱
# BSPB series biological safety pass box

## 产品简介:
## PRODUCT INTRODUCTION:

BSPB 系列生物安全传递舱是一种在有生物安全风险的功能间传递物品的专用生物安全设备。它配备有送风系统、排风系统、电磁门连锁系统、密闭系统、专用的 HMI(人机界面)和消毒系统。广泛用于制药、医疗、卫生、动物实验、生物安全试验等场所的物品的传递。

The BSPB series biological safety pass box are specialized biological safety equipment used for transferring items between functional rooms with biological safety risks. It is equipped with a supply air system, an exhaust air system, an electromagnetic door interlock system, a sealing system, a dedicated HMI (Human - Machine Interface), and a disinfection system. It is widely used for the transfer of items in places such as pharmaceutical manufacturing, medical treatment, healthcare, animal experiments, and biosafety testing.

## 技术特点:
## TECHNICAL FEATURES:

舱体气密性高,泄漏率不大于1%。
The cabin has a high degree of airtightness, with a leakage rate not exceeding 1%.

双门充气密封、电子互锁。
The double doors are inflated for sealing and electronically interlocked.

舱体负压控制，高于设定负压差值自动全速运行。
The cabin is under negative pressure control. When the negative pressure difference is higher than the set value, it will automatically operate at full speed.

舱内表面抑菌处理：内舱表面采用特殊处理，能达到抑菌的作用，使内舱表面永无微生物的藏生地。
The inner surface of the cabin is treated for antibacterial purposes: The inner surface of the cabin is specially treated to achieve antibacterial effects, ensuring that there is no place for microorganisms to hide on the inner surface of the cabin forever.

符合计算机化验证的软件系统：系统具有审计追踪和电子签名功能，符合FDA,21CFR Part 11的审计要求。
A software system compliant with computerized validation: The system has audit trail and electronic signature functions, meeting the audit requirements of FDA, 21CFR Part 11.

可配置紫外线杀菌灯，可内置或外置生物安全器。
It can be equipped with ultraviolet germicidal lamps, and a biosafety device can be installed either inside or outside.



## 型号说明:
## MODEL DESCRIPTION:

BSPB — □ S / 3

- S / 3：（传递舱的门数量，对开 2 门的省略三门的为 3，90 度开门的左开门的 L, 右开门的 R）
  (Door of the pass box against of door opening,The "L" type door opens to the left and to the right,Three doors)
- □：带消毒功能，无消毒功能省略
- 舱内径规格： 宽 / 深 / 高，mm
- BSPB：生物安全传递舱

## 性能参数:
## PERFORMANCE PARAMETERS:

| | |
|---|---|
| 材质 Material | 全SS304不锈钢 Full SS304 stainless steel |
| 洁净等级 Cleanliness | 优于CLASS B级 Superior to CLASS B |
| 泄漏率 Leakage rate | ≤1%VOL/h@100Pa |
| 换气次数 Air change rate | ≧50T/h |
| 舱内压差 Pressure difference inside the cabin | -80Pa ~ -20Pa |
| 压缩空气 Compressed air | 0.3-0.5Mpa |
| 控制方式 Control method | 手动或自动 Manual or automatic |
| 噪音 Noise | ≤70dB(A) |

## 型号参数:
## MODEL PARAMETERS:

| 规格/型号 Specification/Model | 外尺寸(mm) External dimensions (mm) | 内尺寸(mm) Internal dimensions (mm) | 排风接口 Exhaust air interface | 新风口 Fresh air inlet | 电源 Power supply | 最大功耗 PC |
|---|---|---|---|---|---|---|
| BSPB-600/600/600 | 800*650*1800 | 600/600/600 | DN50 | | AC220V /50HZ | 0.6KW |
| BSPB-700/700/700 | 900*750*1800 | 700/700/700 | | | | |
| BSPB-800/800/800 | 1000*850*1800 | 800/800/800 | | | | 0.8KW |
| BSPB-900/900/1000 | 1100*950*2000 | 900/900/1000 | | | | |
| BSPB-1000/1000/1000 | 1200*1100*2200 | 1000/1000/1000 | DN100 | | | 1.5KW |
| BSPB-1200/1000/1000 | 1450*1100*2200 | 1200/1000/1000 | DN150 | | | |

# 生物安全充气密封门
# Biosecurity Inflatable Sealed Door

## 产品简介：
## PRODUCT INTRODUCTION:

生物安全充气密封门适用于 BSL-3/4、ABSL-3/4 等高等级生物安全实验室，满足高气密性要求。
分为单气囊与双气囊结构，双气囊款自带现场气密性自检功能。
工作原理：关门后，充气密封条充气膨胀，实现门与门框的严密密封；开门前密封条自动放气收缩，避免磨损。
全不锈钢无缝焊接结构，耐甲醛、汽化过氧化氢、二氧化氯等消毒剂腐蚀，可单门独立控制或多门互锁，安全可靠。

Biosafety Inflatable Seal Door suitable for high-level biosafety laboratories such as BSL-3/4 and ABSL-3/4, meeting high airtightness requirements.
Available in single-bladder and dual-bladder configurations. The dual-bladder model is equipped with on-site airtightness self-test function.
Working principle: After the door is closed, the inflatable seal strip is inflated and expanded to form a tight seal between the door and the frame; before the door is opened, the seal strip automatically deflates and retracts to avoid wear.
Constructed with full stainless steel seamless welding, it is resistant to corrosion by disinfectants such as formaldehyde, vaporized hydrogen peroxide, and chlorine dioxide. It supports single-door independent control or multi-door interlocking, ensuring safety and reliability.













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# 负压称量罩
# Dispensing/Sampling Booth

发明专利：ZL201010215794.5　　实用新型专利：ZL201020245042.9　ZL201020245057.5
Invention patent：ZL201010215794.5　　Utility Model Patent:：ZL201020245042.9　ZL201020245057.5

## 产品简介：
## PRODUCT INTRODUCTION:

称量罩是一种用于制药、微生物研究和科学实验等场所专用的局部净化设备，它提供一种垂直单向气流，部分洁净空气在工作区循环，部分排出至附近区域，使工作区产生负压，防止交叉污染，用于保证工作区的高洁净度环境。
在设备中进行粉尘、试剂称量、分装，可以控制粉尘、试剂外溢、上扬，防止粉尘、试剂对人体的吸入危害，还避免粉尘、试剂的交叉污染，保护外界环境及室内人员的安全。
称量操作区域由百级垂直层流 ISO 5（NF，EN，ISO14644-1）保护。

The Dispensing booth is a specialized local purification device used in places such as pharmaceutical manufacturing, microbiological research, and scientific experiments. It provides a vertical unidirectional air flow. Part of the clean air circulates in the working area, and part is discharged to the nearby area, creating a negative pressure in the working area to prevent cross - contamination and ensure a highly clean environment in the working area. When weighing and sub - packaging dust and reagents in the equipment, it can control the spillage and upward movement of dust and reagents, prevent the inhalation hazards of dust and reagents to the human body, avoid the cross - contamination of dust and reagents, and protect the external environment and the safety of indoor personnel. The weighing operation area is protected by a class 100 vertical laminar flow ISO5 (NF, EN, ISO14644 - 1).

## 结构特征：
## STRUCTURE FEATURES:

本设备由工作区、回风箱体、风机箱体、出风箱体及外箱体几大部分拼装而成。控制面板位于设备内部工作区正面，控制面板采用触摸屏控制面板，可以控制风机起停，调节风机工况，调整工作区需要的风速（当设备安装使用后，需由专门人员调节工况）。测试过滤器的阻力在送风箱体的内部还有排风调节板，可以调节设备的排风量在合理的范围内（设备安装就位后，由专业人员设试，请勿擅自调整）。

This equipment is assembled from several major components, including the working area, return air box, fan box, air outlet box, and outer box. The control panel is located on the front of the working area inside the equipment. It is a touch - screen control panel, which can be used to control the start and stop of the fan, adjust the fan operating conditions, and set the air velocity required in the working area (after the equipment is installed and put into use, the operating conditions should be adjusted by specialized personnel). There is a resistance - testing device for the filter inside the air supply box. Additionally, there is an exhaust air adjustment plate, which can regulate the exhaust air volume of the equipment within a reasonable range (after the equipment is installed in place, it should be tested by professionals. Do not adjust it without authorization).





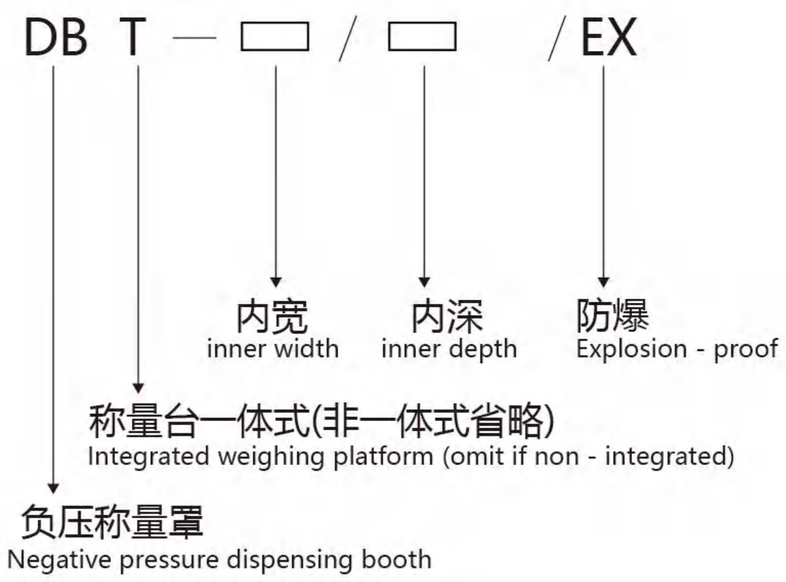
## 工作原理：
## WORKING PRINCIPLE:

本设备采用垂直单向流的气流形式，回风先要通过初效过滤器进行预过滤，将气流中的大颗粒粉尘粒子处理掉。经过预处理后的空气，再经过中效过滤器进行二次过滤，以起到充分保护高效过滤器的作用。在离心风机提供的压力下，通过高效过滤器，使之达到洁净要求。
洁净气流被送至送风箱体内，90% 通过均流送风网板，形成均匀的垂直送风气流，10% 则通过风量调节板，排出设备。所有气流均经过高效过滤器处理，所以送风，排风均不带残余粉尘，避免了二次污染。由于在工作区域形成稳定的单向流，在此区域中散发的粉尘，会在单向气流的影响下，随着气流而被初、中效过滤器所捕集。设备带有 10% 的排风，从而形成相对与外部环境的负压，从一定程度上保证了此区域内的粉尘不会扩散至室外，起到保护外部环境的作用。

This equipment adopts a vertical unidirectional air flow pattern. The return air first passes through a primary filter for pre - filtration, removing large - particle dust particles in the air flow. The pre - treated air then undergoes secondary filtration through a medium - efficiency filter to fully protect the high - efficiency filter. Under the pressure provided by the centrifugal fan, the air passes through the high - efficiency filter to meet the cleanliness requirements.
The clean air flow is sent into the air supply box. 90% of it passes through the air - equalizing and air - supplying mesh plate to form a uniform vertical air - supply flow, while 10% passes through the air volume adjustment plate and is discharged from the equipment. Since all air flows are treated by the high - efficiency filter, neither the supply air nor the exhaust air contains residual dust, avoiding secondary pollution. As a stable unidirectional flow is formed in the working area, the dust emitted in this area, under the influence of the unidirectional air flow, will be trapped by the primary and medium - efficiency filters along with the air flow. The equipment has a 10% exhaust air volume, creating a negative pressure relative to the external environment. To a certain extent, this ensures that the dust in this area will not spread outdoors, thus protecting the external environment.

# 负压称量罩
# Dispensing/Sampling Booth

## 型号说明:
## MODEL DESCRIPTION:




## 技术特点:
## TECHNICAL FEATURES:

· 触摸屏 PLC 智能控制，操作系统三级密码保护，保证系统安全。
Controlled intelligently by touch screen PLC; the operating system is protected by three-level passwords to ensure system security.

· 均流膜送风，保证均流膜下方气流流型效果，层流效果更加明显。
Air supply via flow equalizing membrane ensures the airflow pattern beneath the membrane and delivers superior laminar flow performance.

· 特有的外排过滤器系统，避免对外界环境污染。
Equipped with exclusive exhaust filter system to prevent environmental pollution to the surroundings.

· 风速传感器、压差表实时监测过滤器寿命。
Wind speed sensors and differential pressure gauges monitor filter service life in real time.

## 技术参数:
## PERFORMANCE PARAMETERS:

| | | | |
|---|---|---|---|
| 材质<br>Material | 304不锈钢拉丝板<br>304 stainless steel brushed plate | 结构<br>Strusture | 立面圆弧，模块化设计，现场组装。可选前侧PVC条帘<br>The facade features an arc shape, with a modular design for on - site assembly. A PVC strip curtain. on the front side is optional. |
| 风速<br>Wind speed | 0.36~0.54m/s，风速可调<br>0.36 - 0.54m/s, and the wind speed is adjustable | 照度<br>Illuminance | ≥300 Lux |
| 洁净度<br>Cleanliness level | ISO5级（class 100级）CLASS A<br>ISO Class 5 (Class 100), Class A | 噪音<br>Noise | ≤75dB(A) |
| 电源<br>Power supply | 三相380V,50Hz<br>Three - phase, 380V, 50Hz | 工作区尺寸<br>Working Area Dimensions | 宽*深*高 (可以根据客户需要定制)<br>Width * Depth * Height (can be customized according to customer requirements). |
| 外形尺寸<br>Overall dimensions | （内宽+100）*（内深+500）*（内高+450）mm<br>(Inner width + 100) × (Inner depth + 500) × (Inner height + 450) mm | | |

## 客户案例:
## APPILICATION CASES:










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# 生物安全柜(A2/B2型) Biological safety cabinet(A2/B2)

## 产品特点:
## PRODUCT FEATURES:



- 70%的空气经过滤后循环使用，30%的空气经过滤后可向室外排出或接到排风系统(A2型)。
- 100% 的空气经过滤后向室外排出或接到排风系统排风管路采用执行器 PD 控制阀门(B2型)。
- 流线型的豪华整机造型，前端10°倾斜设计，使操作者更舒适。
- 通体式搁手架略高于工作台面。
- 前方吸入口采用气幕保护技术，形成洁净气幕，有效防止逆流、湍流的形成。
- 可拆卸操作台面，配置不锈钢提升拉手和支撑架，清洁维护更方便。
- 工作区全部采用SUS不锈钢，圆弧角内胆一次成型具备良好的密封性。
- 工作区内壁两侧配置防溅安全插座，左右两侧各配置水、气阀门接管通道各两个，使用更灵活。
- 前窗防爆钢化玻璃可内外全幅清洁，无卫生死角。
- 外箱体采用优质冷轧钢板静电喷涂，抗腐蚀能力强，能有效地抑制柜体表面细菌滋生。也可用全不锈钢SUS304制作。
- 负压环绕的双层箱体，严格的柜体防泄漏检测，确保柜体在500Pa的条件下无任何泄露。
- 移动前窗采用机械式悬挂升降系统，6mm厚的防紫外线安全玻璃，能任意升降定位关闭密封后便于灭菌处理。
- 紫外灯、前窗、照明、风机安全互锁,防止紫外线和污染的泄露，确保人员操作和环境的安全性。
- 意外断电时,可在恢复电源后自行回到断电前运行状态，充分保护人员安全。
- 当实验过程需暂停时无需关机，关闭前窗即自动进入低速节能运行状态，维持操作区的洁净度。一旦打开前窗即刻进入正常运行状态，有效提高操作效率。
- 彩色高清液晶人机对话界面，实时显示风速及过滤器寿命，并监控安全柜运行状态，同时提供报警功能。
- 紫外灯有预约定时功能，定时开启和关闭。
- 当客户需要外界排风管道时，可选配智能排风帽。外接的排风系统风量变化时，排风帽可以用来保证安全柜排风风量的恒定。

A2:70% of the air is recycled after filtration, and 30% of the air can be exhausted outdoors or connected to the exhaust system after filtration.
B2:100% of the air is filtered and then discharged outdoors or connected to the exhaust pipeline of the exhaust system. An actuator PD is used to control
- the valve.
- The streamlined and luxurious overall machine shape, with a 10° inclined design at the front end, makes the operator more comfortable.
The integrated armrest is slightly higher than the workbench surface.
- The air inlet at the front adopts the air curtain protection technology to form a clean air curtain, effectively preventing the formation of backflow and
- turbulence.
- The detachable workbench surface is equipped with stainless - steel lifting handles and support frames, which makes cleaning and maintenance more convenient.
- The entire working area is made of SUS stainless steel, and the inner tank with rounded corners is formed in one piece, featuring good airtightness.
Anti - splash safety sockets are configured on both sides of the inner wall of the working area. There are two water and gas valve connection channels on
- each of the left and right sides, providing more flexible use.
- The front - window explosion - proof tempered glass can be fully cleaned both inside and outside, leaving no hygiene blind spots.
The outer box is made of high - quality cold - rolled steel plate with electrostatic spraying, having strong corrosion resistance and effectively inhibiting the
- growth of bacteria on the surface of the cabinet. It can also be made of all - stainless - steel SUS304.
- The double - layer box with negative - pressure surround and strict cabinet leak - proof detection ensure that the cabinet has no leakage under the condition of 500Pa.
- The movable front window adopts a mechanical suspension lifting system. The 6mm - thick anti - ultraviolet safety glass can be arbitrarily lifted, positioned, closed and sealed, which is convenient for sterilization treatment.
- The ultraviolet lamp, front window, lighting, and fan are safety - interlocked to prevent the leakage of ultraviolet rays and pollution, ensuring the safety of personnel operation and the environment.
- In case of unexpected power failure, the equipment can automatically return to the operating state before the power failure after the power is restored, fully protecting the safety of personnel.
- When the experiment needs to be paused, there is no need to shut down the machine. Closing the front window will automatically enter the low - speed energy - saving operating state to maintain the cleanliness of the working area. Once the front window is opened, it will immediately enter the normal
- operating state, effectively improving the operating efficiency.
The color high - definition liquid - crystal human - machine dialogue interface can display the wind speed and the filter life in real - time, monitor the operating status of the safety cabinet, and also provide an alarm function.
- The ultraviolet lamp has a pre - set timing function, which can be turned on and off at a set time.
When the customer needs an external exhaust duct, an intelligent exhaust hood can be optionally equipped. When the air volume of the external exhaust
- system changes, the exhaust hood can be used to ensure the constant exhaust air volume of the safety cabinet.
-

# 生物安全柜(A2/B2型) Biological safety cabinet(A2/B2)

## 技术参数：
## PERFORMANCE PARAMETER:

| 型号 Model | BSC-1000ⅡA2 | BSC-1300ⅡA2 | BSC-1600ⅡA2 | BSC-1800ⅡA2 |
|---|---|---|---|---|
| 过滤效率 Filtration efficiency | ≥99.9995%，@0.12μm | | | |
| 送风和排风过滤器 Supply air and exhaust air filters | ULPA过滤器 ULPA filter | | | |
| 洁净等级 Cleanliness level | ISO4 | | | |
| 产品执行标准 Product execution standard | YY0569-2011(GB 4793.1-2007、GB/T 18268.1-2010) | | | |
| 下降风速m/s Downflow velocity (m/s) | 0.35 | | | 0.33 |
| 流入风速m/s Inflow velocity (m/s) | 0.55 | | | 0.53 |
| 噪音dB(A) Noise dB(A) | 58~65 | | | |
| 振动 Vibration | 台面中心位置≤5μm At the center of the tabletop, the value is ≤5μm | | | |
| 电源电压 Power supply | AC220V,1Φ,50HZ | | | |
| 移门开启高度mm Opening height of the sliding door (mm) | 200 | | | |
| 人员防护 Personnel protection | A:撞击式采样器的菌落总数≤10CFU/次　B：狭缝式采样器的菌落总数≤5CFU/次 A: The total number of colonies in the impact sampler is ≤ 10 CFU/time. B: The total number of colonies in the slit sampler is ≤ 5 CFU/time. | | | |
| 受试产品防护 Protection of the tested product | 菌落总数≤5CFU/次 The total number of colonies is less than or equal to 5 CFU per time. | | | |
| 交叉感染防护 Cross - infection prevention | 菌落总数≤2CFU/次 The total number of colonies is less than or equal to 2 CFU per time. | | | |
| 最大功率kVA(含备用插座) Maximum power kVA (including spare sockets) | 1.65 | 1.75 | 1.85 | 1.85 |
| 重量(kg) Weight(kg) | 260 | 300 | 360 | 400 |
| 工作区尺寸(mm) Working area dimensions (mm) | 1000*630*630 | 1300*630*630 | 1600*630*630 | 1800*630*630 |
| 外形尺寸(mm) Overall dimensions (mm) | 1200*795*2050 | 1500*795*2050 | 1800*795*2050 | 2000*795*2050 |
| 照明灯规格(W)和数量 Specification (W) and quantity of the lighting lamp | 24.5*① | 31*① | 36*① | 36*① |
| 紫外灯规格(W)和数量 Specification (W) and quantity of the ultraviolet lamp | 20*① | 30*① | 40*① | 40*① |
| 照度LX Illuminance | ≥900 | | | |
| 排风方向 Exhaust direction | 顶出式 Push-out | | | |

| 型号 Model | BSC-1000ⅡB2 | BSC-1300ⅡB2 | BSC-1600ⅡB2 | BSC-1800ⅡB2 |
|---|---|---|---|---|
| 过滤效率 Filtration efficiency | ≥99.9995%，@0.12μm | | | |
| 送风和排风过滤器 Supply air and exhaust air filters | ULPA过滤器 ULPA filter | | | |
| 洁净等级 Cleanliness level | ISO4 | | | |
| 产品执行标准 Product execution standard | YY0569-2011(GB 4793.1-2007、GB/T 18268.1-2010) | | | |
| 下降风速m/s Downflow velocity (m/s) | 0.33 | 0.33 | | |
| 流入风速m/s Inflow velocity (m/s) | 0.53 | 0.55 | | |
| 噪音dB(A) Noise dB(A) | 58~65 | | | |
| 振动 Vibration | 台面中心位置≤5μm At the center of the tabletop, the value is ≤5μm | | | |
| 电源电压 Power supply | AC220V,1Φ,50HZ | | | |
| 移门开启高度mm Opening height of the sliding door (mm) | 200 | | | |
| 人员防护 Personnel protection | A:撞击式采样器的菌落总数≤10CFU/次　B：狭缝式采样器的菌落总数≤5CFU/次 A: The total number of colonies in the impact sampler is ≤ 10 CFU/time. B: The total number of colonies in the slit sampler is ≤ 5 CFU/time. | | | |
| 受试产品防护 Protection of the tested product | 菌落总数≤5CFU/次 The total number of colonies is less than or equal to 5 CFU per time. | | | |
| 交叉感染防护 Cross - infection prevention | 菌落总数≤2CFU/次 The total number of colonies is less than or equal to 2 CFU per time. | | | |
| 最大功率kVA(含备用插座) Maximum power kVA (including spare sockets) | 1.65 | 1.70 | 1.75 | 1.75 |
| 重量(kg) Weight(kg) | 270 | 300 | 370 | 410 |
| 工作区尺寸(mm) Working area dimensions (mm) | 1000*630*630 | 1300*630*630 | 1600*630*630 | 1800*630*630 |
| 外形尺寸(mm) Overall dimensions (mm) | 1200*795*2050 | 1500*630*630 | 1800*795*2050 | 2000*795*2050 |
| 照明灯规格(W)和数量 Specification (W) and quantity of the lighting lamp | 24.5*① | 31*① | 36*① | 36*① |
| 紫外灯规格(W)和数量 Specification (W) and quantity of the ultraviolet lamp | 20*① | 30*① | 40*① | 40*① |
| 照度LX Illuminance | ≥900 | | | |
| 排风方向 Exhaust direction | 顶出式 Push-out | | | |

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# MIS系列雾淋室
# MIS series mist shower

## 产品简介:
## PRODUCT INTRODUCTION:

MIS 系列雾淋室是一种新型的光控电子互锁自动喷雾的隔离防污染设备，它广泛应用于制药、生化制品、隔离病房等生产和医疗部门，用于将人体身上的粉尘喷湿不被扬起而保护人员和外界环境的场合，人员通过后直接脱去外衣离开生产现场，保护操作人员不要将对人体有害的粉尘带出洁净室，保护人员、保护外界环境。同时雾淋室也起到气闸的作用，防止未经处理的对人体有伤害的空气逃出和污染外界环境，是进行人身净化和防止室外空气被污染的有效隔离设备。

The MIS series mist shower is a new type of isolation and anti-pollution device with photoelectric control, electronic interlocking, and automatic spraying. It is widely used in production and medical departments such as pharmaceuticals, biochemical products, and isolation wards. It is used in scenarios where the dust on the human body needs to be wetted to prevent it from being raised, thus protecting the personnel and the external environment. After passing through the mist shower, personnel can directly take off their outer clothes and leave the production site, which prevents the operators from carrying out harmful dust to the human body out of the clean room, protecting both the personnel and the external environment.
At the same time, the mist shower also functions as an air lock, preventing the untreated air that is harmful to the human body from escaping and polluting the external environment. It is an effective isolation device for human body purification and preventing the outdoor air from being contaminated.

## 技术特点:
## TECHNICAL FEATURES:

1、门为充气密封，双门电子互锁。
The door is inflated for sealing, and the double doors are electronically interlocked.

2、舱体密封性达到 OEB4 级以上。
The airtightness of the cabin body reaches above OEB4 level.

3、有两档喷雾：应急大容量喷雾和一般喷雾。
There are two spray modes: emergency large-capacity spraying and general spraying.

4、内部一体防水处理。
The interior is integrally treated for waterproofing.

5、水温控制，雾淋温度自动控制。
Water temperature control, and the mist shower temperature is automatically controlled.

6、通风负压设计，保护环境。
Water temperature control, and the mist shower temperature is automatically controlled.

7、新风和排气接口密闭阀。
Closed valves for the fresh air and exhaust interfaces.

8、配置 BIBO 安全过滤装置
Equipped with a BIBO (Bag In, Bag Out) safety filtration device.

## 型号说明:
## MODEL DESCRIPTION:

MIS — 900 / AS / AO

- AO → 外排空气 Air Out, Exhausted Air.
- AS → 风淋 Air Shower
- 900 → 舱内宽度为900mm The width inside the cabin is 900 millimeters.
- MIS → 雾淋室 Mist shower






# MIS系列雾淋室
# MIS series mist shower

## 核心原理:
## CORE PRINCIPLE:

1. **雾化包覆：** 高压泵 / 超声波将水雾化成 5–10μm 微雾，充满腔室，润湿衣物并包覆粉尘 / 药粉微粒，凝聚成大颗粒，抑制扬尘。
   Atomization and Coating: Water is atomized into fine mist of 5–10μm by high-pressure pump or ultrasonic device. The mist fills the chamber, wets the garments and coats dust and pharmaceutical powder particles, which then agglomerate into larger particles to prevent dust dispersion.
2. **高速风淋：** ≥25m/s 洁净气流全方位喷射，将凝聚大颗粒吹落至底部集水 / 排污系统。
   High-speed air shower: Clean air flow at a speed of ≥25 m/s is sprayed in all directions, blowing the agglomerated large particles down to the water collection and drainage system at the bottom.
3. **自动控制：** 红外感应启动，双门互锁防窜气，流程： 进门→感应雾淋→风淋→排水→出门。
   Automatic control: Activated by infrared induction. The interlocked double doors prevent air cross-flow. Working process: Enter → Mist shower upon induction → Air shower → Drainage → Exit.

## 性能参数:
## PERFORMANCE PARAMETERS :

| 参数<br>Parameter | MIS-900 | MIS-900/AS | MIS-900/AO |
|---|---|---|---|
| 功能<br>Function | 仅雾淋<br>Mist shower | 雾淋+风淋<br>Mist shower + air shower | 雾淋+BIBO排气<br>Mist shower + BIBO exhaust |
| 压差状态<br>Differential pressure status | 无压差<br>No pressure difference | 微负压<br>Slight negative pressure | -10~-100Pa,可调<br>-10 to -100 Pa(adjustable ) |
| 雾淋时间<br>Mist shower time | 1-99S(默认30s)<br>1-99 seconds (default is 30 seconds) | | |
| 雾淋颗粒粒径<br>Particle size of mist shower | ≤10um | | |
| 额定雾淋量<br>Rated mist shower volume | ≥200g/min | | |
| 雾淋喷嘴数<br>Number of mist shower nozzles | 2 | | |
| 空气喷淋风速<br>Air shower wind speed | 25m/s | | |
| 空气过滤效率<br>Air filtration efficiency | 99.97%0.3um | | |
| 风淋喷嘴数<br>Number of levels of the bag in bag out exhaust system | 6 | | |
| 额定排气量<br>Rated exhaust volume | | | ≥200m³/h |
| 排气过滤效率<br>Exhaust air filtration efficiency | | | 99.995%0.3um |
| 排气袋进袋出级数<br>Number of levels of the bag in bag out exhaust system | | | 单级<br>Single stage |
| 外形尺寸<br>External dimensions | 1400*1000*2300 | 1400*1000*2300 | 1500*1000*2500 |
| 工作区尺寸<br>Working area dimensions | 900*900*2000 | 900*900*2000 | 900*900*2000 |
| 电源<br>Power supply | AC220V, 50Hz | AC380V, 50Hz | AC220V, 50Hz |
| 最大功率<br>Maximum power | 1KW | 2.5KW | 2.5KW |
| 压缩空气需求<br>Compressed air requirement | 压力0.3-0.6MPa<br>The pressure is 0.3-0.6 megapascals (MPa). | | |
| 水源<br>Water source | 纯净水<br>Purified water | | |
| 排水<br>Drainage | 无<br>None | | |

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# 手套箱
# GLB series glove box






## GLB系列手套箱技术规格：
## TECHNICAL SPECIFICATIONS(GLB series glove box ):

| 项目/型号 Project / Model | GLB-2 | GLB-3 | GLB-4 | GLB-4/D |
|---|---|---|---|---|
| 手套数 Number of gloves | 2 | 3 | 4 | 8 |
| 内舱尺寸(mm) Internal dimensions | 1200*780*900 | 1500*780*900 | 1800*780*900 | 1800*1200*900 |
| 外形尺寸 (mm) External dimensions | 1950*950*1900 | 2250*950*1900 | 2550*950*1900 | 2550*1210*1900 |
| 重量 Weight | 350kg | 420kg | 550kg | 630kg |
| 电源 Power supply | AC220V50Hz,1.8KW | | AC220V50Hz,2.5KW | |

## AGLB系列手套箱技术规格：
## TECHNICAL SPECIFICATIONS(AGLB series glove box ):

| 项目/型号 Project / Model | AGLB-600 | AGLB-900/PA | AGLB-900/VA | AGLB-900/CPA | AGLB-900/CVA |
|---|---|---|---|---|---|
| 构造 Structure | 无前室 No front chamber | 前室净化 Front chamber purification | 前室真空 Front chamber vacuum | 前室净化; 气体循环 Front chamber vacuum;Gas circulation | |
| 功能 Function | 保护人员 Protecting personnel | 保护人员/保护产品 Protecting personnel/protecting products | | 保护人员/保护产品/环境保护 Protecting personnel/protecting products/protecting the environment | |
| 内舱尺寸 (mm) Internal dimensions | 600*450*420 | 900*550*650 | | | |
| 外形尺寸 (mm) External dimensions | 650*475*445 | 1250*575*850 | | | |
| 前室内径 Front chamber inner diameter | — | DN280*350 | | | |
| 重量 Weight | 22kg | 36kg | 39kg | 100kg | 100kg |
| 尺寸 Size | 可根据客户要求定制 Customizable according to customer requirements | | | | |

## 产品简介：
## PRODUCT INTRODUCTION:

手套箱是一种密闭的惰性气体保护的安全保护设备，具有超低泄漏率的密闭的系统，超高纯氮气或惰性气体的工作环境，广泛应用于新能源、锂电池、真空镀膜、激光焊接、核工业、实验室等行业。
在操作形式上，有单面和双面操作形式；从结构上分，有集成式和分体式；从功能上看，有气体压力自动控制，水、氧含量自动控制，净化柱自动再生还原等；具有三级用户管理、安全提示、故障报警和诊断，数据储存，审计追踪和电子签名等功能。本设备可以与不同的设备、配件进行对接和集成，实现各种工艺要求。

Glove box is a closed system with inert gas protection and ultra-low leakage rate. It is widely used in new energy, lithium battery, vacuum deposition, laser welding, nuclear industry, laboratory and other industries.
In terms of operation forms, there are single sided and double sided operation forms; From a structural perspective, there are integrated and split types; From a functional perspective, there are automatic control of gas pressure, automatic control of water and oxygen content, and automatic regeneration and reduction of purification columns; It has functions such as three-level user management, security prompts, judge and alarm, data storage, audit trail, and electronic signature. This device can be connected and integrated with different devices and accessories to achieve various process requirements.

## 型号说明：
## MODEL DESCRIPTION:

**GLB — 4 / D — PB2**

- GLB：手套箱 GLove Box
- 4：单面手套的个数 Number of single sided gloves.
- D:双面操作,单面的省略 Double sided operation, single sided omission.
- PB2:配2个传递舱，单传递舱省略 PB2: Equipped with 2 transfer cabin, Single transfer cabin omitted.

**AGLB — 900 / C / P / V / A**

- AGLB：丙烯酸手套箱 Acryl GLove Box
- 900：操作舱宽度 Operation cabin width.
- C / P / V：C:气体循环，P:有净化功能，V:有真空功能 C: Gas circulation, P: with purification function, V: with vacuum function.
- A：A:带有前室; CVA：有真空前室,气体循环，CPA：有净化前室,气体循环 A: With front chamber; CVA: with vacuum chamber, gas circulation, CPA: with purification chamber, gas circulation

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# AS系列风淋室
# AS series air shower

## 产品简介:
## PRODUCT INTRODUCTION:

该设备是一种通用性较强的局部净化设备，安装于洁净室与非洁净室之间的隔墙处，用于人员或物品 进入洁净区时的吹淋，使用后可有效减少尘源进入洁净区，使洁净区保持正常的工作状态。
吹淋方式：单侧吹淋、双侧吹淋、三侧吹淋顶吹淋。
This equipment is a highly versatile local purification device. It is installed on the partition wall between the clean room and the non - clean room. It is used for air showering when personnel or items enter the clean area. After use, it can effectively reduce the entry of dust sources into the clean area, enabling the clean area to maintain a normal working state.
Air showering methods: single - side air showering, double - side air showering, three - side air showering, and top - side air showering.

## 技术特点:
## TECHNICAL FEATURES:

1.光电感应，自动吹淋;
Photoelectric induction for automatic air shower.

2.循环风设计，保证非吹淋状态时风淋区的洁净;
Design of circular air flow ensures the cleanliness of the air shower area when not in the air - showering state.

3.双门采用电子联锁强制吹淋，双门可做成自动移门;
The two doors are electronically interlocked to enforce air showering, and the two doors can be made into automatic sliding doors.

4.可接受用户的特殊设计、可制作成负压型，防爆型风淋室;
Special designs from customers are acceptable. It can be made into a negative - pressure type or explosion - proof air shower.

5.可配装除静电装置;
It can be equipped with an anti - static device.

6.承接气闸式、缓冲式的特殊设计、制造。
Undertake the special design and manufacture of air - lock type and buffer type.



## 型号说明:
## MODEL DESCRIPTION:

AS 800 T/S / AR R/L 2/1 EX

AS：钢板风淋

800：内净宽度

T/S /：吹淋方式 Air shower method
- T:三侧吹淋 T: Three - side air showering
- S:单侧吹淋 S: Single - side air showering
- 双侧吹淋省略 Double - side air showering is omitted.

AR：开门方式 Door opening method
- A:自动移门(Auto) A: Automatic sliding door (Auto)
- 无：手动推拉开门 None: Manual push - pull door
- AR:自动卷帘门 AR: Automatic roller - shutter door.

R/L：进入方向 Entry direction
- R:右转 R:Turn right
- L:左转 L: turn left

2/1：人数/段数 Number of people/ Number of segments

EX：防爆型 Explosion - proof type

# AS系列风淋室
# AS series air shower

## 性能参数:
## PERFORMANCE PARAMETERS:

| 参数/型号<br>Parameter/Model | AS-800-1/1 | AS-800-2/1 | AS-800-3/1 |
|---|---|---|---|
| 过滤效率<br>Filtration efficiency | 99.99%@0.3μm | | |
| 喷出风速(m/s)<br>Spraying wind speed (m/s) | 25 | | |
| 风淋时间(s)<br>Air shower time (s) | 0-99（可调）<br>0-99（adjustable） | | |
| 喷嘴数量<br>Number of nozzles | 12 | 16 | 18 |
| 风淋区尺寸(mm)<br>Dimensions of the air shower area (mm) | 800*900*2000 | 800*1200*2000 | 800*1500*2000 |
| 外形尺寸(mm)<br>Overall dimensions (mm) | 1300*1000*2150 | 1300*1300*2150 | 1300*1600*2150 |
| 底板<br>Bottom plate | 不锈钢板<br>Stainless steel plate | | |
| 供电电源<br>Power supply | AC, 3N, 380V+10%, 50Hz+2Hz | | |
| 最大功耗(w)<br>Maximum power consumption (w) | 1000 | 1500 | 2000 |
| 质量(kg)<br>Weight(kg) | 500 | 700 | 1000 |
| 初效过滤规格和数量(mm)<br>Specification and quantity of the primary - effect filter (mm) | 650*400*15*2 | | |
| 高效过滤规格和数量(mm)<br>Specification and quantity of HEPA(mm) | 610*610*69***2** | 760*610*69***2** | 915*610*69***2** |

## 安装案例:
## Installation cases:







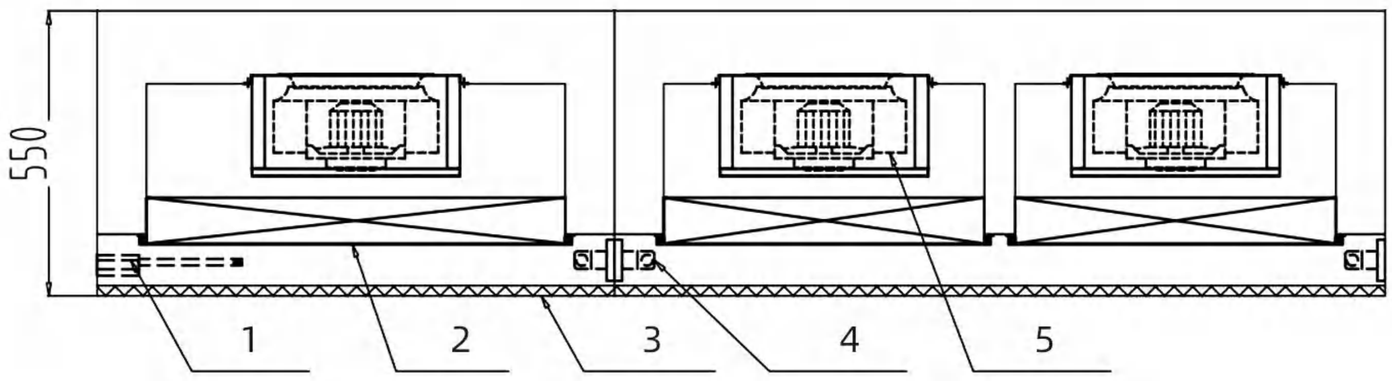
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# 洁净层流罩 Clean laminar air flow hood

## 产品简介：
## PRODUCT INTRODUCTION:

洁净层流罩（层流罩、downflow）是一种垂直单向流的、提供局部classA级环境的、无尘无菌净化设备；它广泛应用于制药行业中，在低级洁净环境下创造A级的专用洁净设备。

The clean laminar air flow hood (laminar flow hood, downflow) is a dust - free and sterile purification device with vertical unidirectional flow, providing a local class A environment. It is widely used in the pharmaceutical industry to create a dedicated class A clean environment within a lower - level clean area.

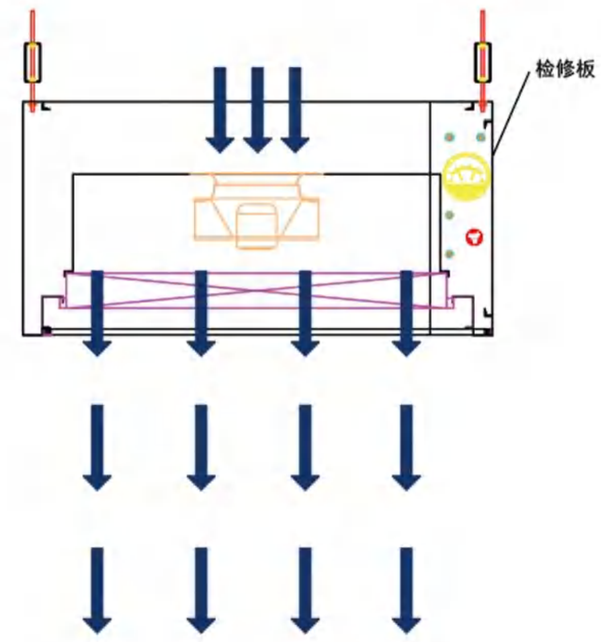



1. 风速传感器
   Wind speed sensor
2. 高效过滤器
   HEPA
3. 均流膜
   Air flow equalizing membrane
4. 照明灯
   lighting lamp
5. 风机
   fan

## 工作原理：
## WORKING PRINCIPLE:

洁净层流罩采用垂直单向流的气流形式，送风先要通过初效过滤器进行预过滤，将气流中的大颗粒粉尘粒子处理掉，经过预处理后的空气，再经过高效过滤器进行二次过滤，以起到充分保护高效过滤器的作用，在离心风机提供的压力下，通过高效过滤器，使之达到洁净要求。从而保证了工作区内达到工艺要求的洁净度。

The clean laminar flow hood adopts a vertical unidirectional flow air pattern. The supply air first passes through a primary - efficiency filter for pre - filtration to remove large - particle dust particles in the air. The pre - treated air then undergoes a second - stage filtration through a high - efficiency particulate air (HEPA) filter to fully protect the HEPA filter.
Under the pressure provided by the centrifugal fan, the air passes through the HEPA filter to meet the cleanliness requirements. This ensures that the cleanliness level within the working area meets the process requirements.



气流结构示意图

## 产品优势：
## PRODUCT ADVANTAGES:

1. 风机具有长寿命，低噪音，免维护，震动小；
   The fan features long lifespan, low noise, maintenance - free operation and low vibration.
2. 双层负压结构，无泄漏风险；
   It adopts a double - layer negative pressure structure, eliminating the risk of leakage.
3. 优异的空气均匀分布性能；
   It has excellent air uniform distribution performance.
4. 风速自动恒定或有级调节；
   The wind speed can be automatically constant or adjusted in steps.
5. 液漕品质，高洁净度；
   The liquid tank is of high quality, ensuring a high level of cleanliness.
6. 内外一致，整洁无死角；
   Consistent cleanliness inside and out, spotless with no overlooked corners.

## 型号说明：
## MODEL DESCRIPTION:

LAF — 1000 / 600 D / C

- LAF — 层流罩 Laminar air flow
- 1000 — 长度 Length
- 600 — 宽度 width
- D — 顶进风 Top air intake
- C — 侧进风 Side air intake

## 性能参数：
## PERFORMANCE PARAMETERS:

| | | | |
|---|---|---|---|
| 洁净等级 Cleanliness level | CLASS A | 噪音 Noise | 58~65dB(A) |
| 平均风速 Average wind speed | 0.36~0.54m/s | 高效过滤器 HEPA | ≥99.995%(H14) |
| 层流形式 Laminar flow form | 垂直 Vertical | 外形尺寸 Overall dimensions | 可根据需求定制 customized |

# 洁净层流罩 Clean laminar air flow hood

## 应用案例：
## APPLICATION CASES:













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# HS系列超净工作台 HS series laminar air flow cabinet



T HS / VS FU — — 1300 C/X D M U S/A E

- T：台式 desktop - type
- HS / VS：水平流 horizontal flow / 垂直流 Vertical flow
- FU：The case where the air supply adopts an integrated FFU is omitted. 送风采用FFU一体的省略
- 1300：External dimensions of the working surface 工作面外形尺寸
- C/X：回风方式：无回风省略台面上侧回风C，台面下回风X
  Return air method: Omit if there is no return air. For return air on the upper side of the tabletop, it is marked as C. For return air under the tabletop, it is marked as X.
- D：With door. Omit if without door. 带门，不带门省略
- M：台面可移动，一体的省略 The tabletop is movable. Omit if it is integrated.
- U：Equipped with an ultraviolet germicidal lamp. Omit if not equipped. 带紫外杀菌灯，不带的省略
- S/A：S:不锈钢，A：杀菌灯 Stainless steel , Germicidal lamp
- E：Eliminate static electricity 消静电

风机在上面的，风机在下面的省略
The fan is located on the top. The case where the fan is located at the bottom is omitted.

## 产品概况：
## PRODUCT INTRODUCTION:

HS 系列超净工作台是一种通用性较强的局部净化工作台，采用可调风量风机系统、轻触型开关调节风速大小，保证工作区风速始终处于合理状态。基本原理：将室内空气经初过滤器初滤，由离心风机压入静压箱，再经过高效空气过滤器精滤，由此送出的洁净气流从上往下垂直方向均匀送出洁净空气，从而形成无尘无菌的洁净工作环境。

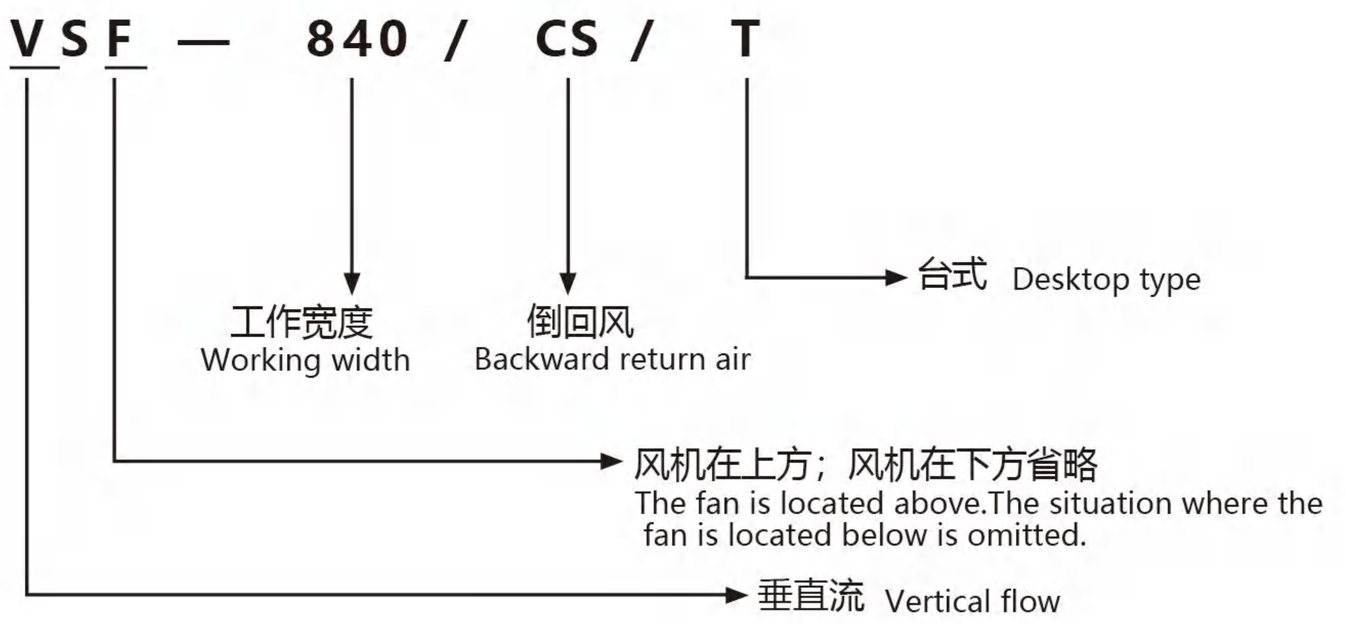
The HS series laminar air flow cabinet is a kind of local purification workbench with strong versatility. It adopts an adjustable air volume fan system, and the wind speed can be adjusted by a touch - type switch to ensure that the wind speed in the working area is always in a reasonable state.
Basic principle: Indoor air is pre - filtered by the primary filter, then pressed into the static pressure box by a centrifugal fan, and finally finely filtered by a high - efficiency air filter. The clean air flow sent out in this way is evenly delivered in a vertical direction from top to bottom, thus creating a dust - free and sterile clean working environment.

## 技术参数：
## PERFORMANCE PARAMETERS:

| 参数 / 型号 Parameter / Model | HS-840 | HS-1300 | THS-650 |
|---|---|---|---|
| 洁净等级 Cleanliness level | ISO 5级（100级） ISO Class 5 (Class 100) | | |
| 细菌数 Bacterial count | ≤0.5每器皿，小时（90mm器皿） ≤0.5 per dish, per hour (90mm dish) | | |
| 平均风速 Average wind speed | 0.3~0.6m/s(可调) 0.3~0.6m/s(adjustable) | | |
| 噪声 Noise | ≤62dB | | |
| 抖动半峰值 Half value of jitter | ≤5μm | | |
| 照明 Lighting/illumination | ≥300LX | | |
| 电源 Power supply | AC220V/50HZ | | |
| 最大能量消耗 Maximum energy consumption | 0.4KW | 0.8KW | 0.4KW |
| 质量 Weight | 160kg | 250kg | 55kg |
| 工作区尺寸 Working area dimensions | 720*650*570mm | 1180*650*570mm | 615*400*535mm |
| 外形尺寸 External dimensions | 840*825*1430mm | 1300*825*1430mm | 650*680*625mm |
| 规格及编号高效过滤器 Specifications and numbers - HEPA | 760*610*50*① | 610*610*50*② | 760*490*50*① |
| 规格及灯数来自萤火虫/紫外线 Specifications and the number of lamps - from firefly / ultraviolet light | 20w*② | 30w*② | 8w*① |
| 适合人数 Suitable number of people | 单人 Single - person | 双人 Double - person | 单人 Single - person |

# VS系列超净工作台　VS series laminar air flow cabinet






## 产品简介：
## PRODUCT INTRODUCTION:

VS 系列超净工作台是一种通用性较强的局部净化工作台，采用可调风量风机系统、轻触型开关调节风速大小，保证工作区风速始终处于合理状态。
基本原理：将室内空气经初过滤器初滤，由离心风机压入静压箱，再经过高效空气过滤器精滤，由此送出的洁净气流从上往下垂直方向均匀送出洁净空气，从而形成无尘无菌的洁净工作环境。

The VS series laminar air flow cabinet is a kind of local purification workbench with strong versatility. It adopts an adjustable air volume fan system, and the wind speed can be adjusted by a touch - type switch to ensure that the wind speed in the working area is always in a reasonable state.
Basic principle: Indoor air is pre - filtered by the primary filter, then pressed into the static pressure box by a centrifugal fan, and finally finely filtered by a high - efficiency air filter. The clean air flow sent out in this way is evenly delivered in a vertical direction from top to bottom, thus creating a dust - free and sterile clean working environment.

## 技术参数：
## PERFORMANCE PARAMETERS:

| 参数 / 型号<br>Parameter / Model | VSF-840 | VSF-1300 | VSF-1300CS |
|---|---|---|---|
| 洁净等级<br>Cleanliness | ISO 5级（100级）<br>ISO Class 5 (Class 100) | | |
| 细菌数<br>Bacterial count | ≤0.5每器皿，小时（90mm器皿）<br>≤0.5 per vessel per hour (90mm vessel) | | |
| 平均风速<br>Average wind speed | 0.3~0.6m/s(可调)<br>0.3 - 0.6m/s (adjustable) | | |
| 噪声<br>Noise | ≤62dB | | |
| 抖动半峰值<br>Half value of jitter | ≤5μm | | |
| 照明<br>Lighting/illumination | ≥300LX | | |
| 电源<br>Power supply | AC220V/50HZ | | |
| 最大能量消耗<br>Maximum energy consumption | 0.4KW | 0.8KW | 0.4KW |
| 质量<br>Weight | 180kg | 280kg | 250kg |
| 工作区尺寸<br>Workspace dimensions | 800*680*570mm | 1120*650*720mm | 1280*650*600mm |
| 外形尺寸<br>External dimensions | 840*700*1610mm | 1300*825*1760mm | 1300*800*1700mm |
| 规格及编号高效过滤器<br>Specifications and serial numbers of HEPA | 760*610*50*① | 760*610*50*② | 760*610*50*① |
| 规格及灯数来自萤火虫/紫外线<br>Specifications and the number of lamps are from firefly/ultraviolet light. | 20w*② | 30w*② | 20w*① |
| 适合人数<br>Number of suitable people | 单人<br>Single - person | 双人<br>Double - person | 单人<br>Single - person |

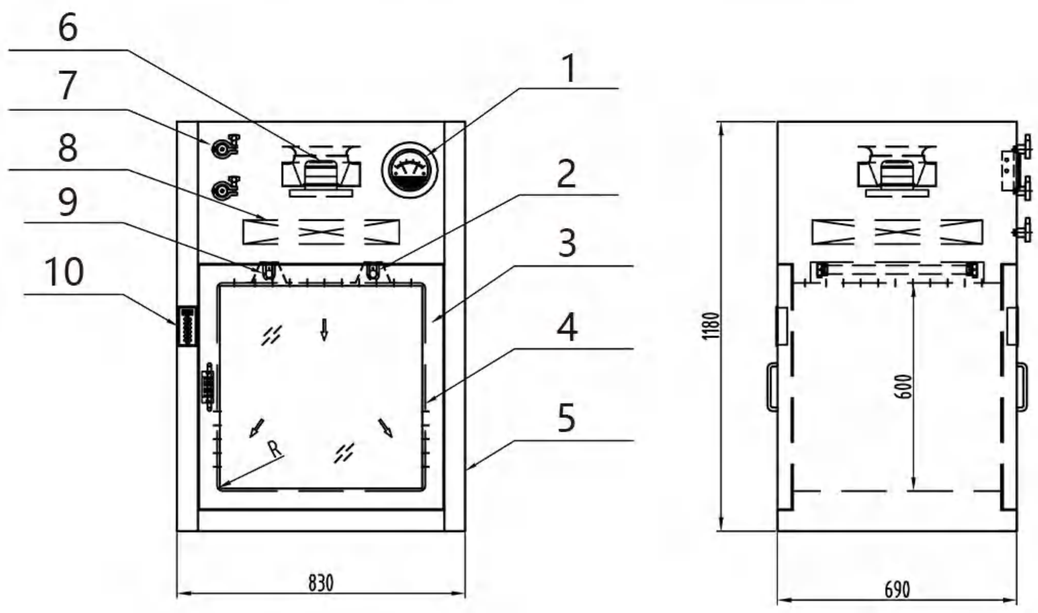
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# CPB系列洁净传递窗 Dynamic pass box

## 产品用途:
## PRODUCT USAGE:

洁净传递窗是洁净厂房的配套设备，安装在不同洁净度等级之间，进行物品的传递，既使物品自净，也能起到气闸作用，阻止净化室间的空气对流。

The dynamic pass box is auxiliary equipment for clean workshops. It is installed between areas with different cleanliness levels to transfer items. It not only enables the self - purification of items but also functions as an air lock to prevent air convection between clean rooms.




## 结构说明:
## STRUCTRUAL DESCRIPTION:

1.压差表
Differential pressure gauge

2.照明灯
lighting lamp

3.钢化玻璃门
tempered glass door

4.圆弧内胆
arc - shaped inner tank

5.箱体
cabinet

6.轴流风机
Axial - flow fan

7.DOP检测口
DOP detection port

8.送风高效
Supply air hepa

9.杀菌灯
Germicidal lamp

10.控制面板
Control panel

## 功能原理:
## WORKING PRINCIPLE:

传递窗两扇门配装电子联锁装置，使传递窗的两扇门不能同时打开，使净化室间的气流不能对流。
物品放入传递窗后，关好门，物品开始被吹淋洁净，到设定时间后，两门方可打开，从而保证了 物品进入净化间的清洁。

Two doors of the pass box are equipped with an electronic interlock device, which prevents the two doors from being opened simultaneously and thus stops the air flow from convecting between clean rooms.
After placing items into the pass box and closing the door, the items start to be cleaned by air shower. Only after the set time can the two doors be opened, ensuring the cleanliness of the items when they enter the clean room.





## 技术特点:

1.全304不锈钢拉丝制作，美观、有效避免生锈;
2.腔体内四角圆弧设计，清洁无死角;
3.双门采用电子连锁装置，两门不可同时打开;
4.双门采用双层钢化玻璃，表面平整，不易积尘，易清洁;
5.双门采用内嵌式，内嵌于箱体，外表面平整;
6.互锁时间可调，带报警功能;
7.配备压差表，实时监测寿命;
8.配备PAO检测口，可检测高效过滤器完整性。

## TECHNICAL FEATURES:

1. Made of full 304 stainless - steel brushed finish, which is aesthetically pleasing and effectively prevents rusting.
2. The four corners inside the cavity are designed in an arc shape, ensuring thorough cleaning without dead corners.
3. The two doors are equipped with an electronic interlock device, so that the two doors cannot be opened simultaneously.
4. The two doors are made of double - layer tempered glass. The surface is flat, less prone to dust accumulation and easy to clean.
5. The two doors are embedded in the cabinet, making the outer surface smooth.
6. The interlock time is adjustable and it has an alarm function.
7. Equipped with a differential pressure gauge to monitor the service life in real - time.
8. Equipped with a PAO detection port, which can be used to detect the integrity of the high - efficiency filter.

## 技术参数:
## PERFORMANCE PARAMETERS:

| 洁净度<br>Cleanliness level | 噪音<br>Noise | 风 速<br>Wind speed | 洁净时间<br>Cleaning time | 电源<br>Power supply | 紫外灯<br>Ultraviolet lamp | 尺寸<br>Size |
|---|---|---|---|---|---|---|
| class A /class100 | 58~60 dB | 0.36～0.54 m/s | 1～99 s可调（默认：15S)<br>Adjustable from 1 to 99 seconds<br>(Default: 15 seconds) | AC 220V,50 HZ | 254nm/≥75mw/cm² | 可定制<br>customized |

# PB系列洁净传递窗 Static pass box

## 产品概况：
## PRODUCT INTRODUCTION:

传递窗是一种洁净室的辅助设备，主要用于洁净区与洁净区之间、洁净区与非洁净区之间小件物品的传递，以减少洁净室的开门次数，把对洁净室的污染降低到低程度。
传递窗采用不锈钢板制作，平整光洁。双门互为连锁，有效阻止交叉污染，设有电子或机械连锁装置，可配置紫外线杀菌灯。
The static pass box is an auxiliary device for clean rooms. It is mainly used for the transfer of small items between clean areas, as well as between clean and non - clean areas. This helps to reduce the number of times the clean room door is opened, minimizing the pollution to the clean room.
The transfer window is made of stainless - steel plates, with a flat and smooth surface. The two doors are interlocked with each other, effectively preventing cross - contamination. It is equipped with an electronic or mechanical interlock device and can be configured with an ultraviolet germicidal lamp.





## 技术特点：
## TECHNICAL FEATURES:

普通传递窗的箱体采用不锈钢钢板制作，能有效地避免腐蚀。两门采用电子联锁装置两门互锁不可同时打开。两门均为双层玻璃，表面平整，不易积尘，易清洁。
The static pass box is made of stainless - steel plates, which can effectively prevent corrosion. The two doors are equipped with an electronic interlocking device, so that they are interlocked and cannot be opened simultaneously. Both doors are made of double - layer glass. Their surfaces are flat, not prone to dust accumulation, and easy to clean.



1.全304不锈钢拉丝制作，美观、有效避免生锈；
2.腔体内四角圆弧设计，清洁无死角；
3.双门采用电子连锁装置，两门不可同时打开；
4.双门采用双层钢化玻璃，表面平整，不易积尘，易清洁；
5.双门采用内嵌式，内嵌于箱体，外表面平整；
6.互锁时间可调，带报警功能；
7.可选配紫外杀菌灯；配LED照明灯。

1. Entirely made of 304 stainless steel wire drawing, it is aesthetically pleasing and effectively prevents rusting.
2. The four corners inside the cavity are designed with arcs, ensuring thorough cleaning without dead corners.
3. The two doors are equipped with an electronic interlocking device, so they cannot be opened simultaneously.
4. The two doors are made of double - layer tempered glass. The surface is flat, not prone to dust accumulation and easy to clean.
5. The two doors are of in - built type, embedded in the box body, making the outer surface flat.
6. The interlocking time is adjustable and it comes with an alarm function.
7. An ultraviolet germicidal lamp is optional; an LED lighting lamp is provided.

## 技术参数：
## PERFORMANCE PARAMETERS:

| | | | |
|---|---|---|---|
| 门锁控制电压<br>Door lock control voltage | +24V | 照明灯<br>Lighting lamp | 30W |
| 报警<br>Alarm | 双侧门报警<br>Two - sided door alarm | 照明时间<br>Lighting time | 1～99s可调，可选以min为单位<br>Adjustable from 1 to 99 seconds, and the unit can also be selected as minutes.Adjustable from 1 to 99 seconds, and the unit can also be selected as minutes. |
| 互锁时间<br>Interlock time | 1~99s可调，可选以min为单位<br>It is adjustable from 1 to 99 seconds, and can also be selected in minutes as the unit. | 紫外灯<br>Ultraviolet lamp | 254nm / ≥75mw/cm² |
| 尺寸<br>Dimension | 可根据客户要求定制<br>It can be customized according to customer requirements. | | |

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# 洁净层流车 Clean Laminar Cart

实用新型专利: ZL201020136995. 0 ZL201020245031.0 ZL201220136993. 1
Utility model patent: ZL201020136995. 0 ZL201020245031.0 ZL201220136993. 1

## 产品简介：
## PRODUCT INTRODUCTION:

洁净层流车是一种内置大容量电池和直流风机、提供局部CLASS A级环境的、可移动的净化设备。它被广泛用于制药行业中，胶塞桶、工器具、药品等无菌对接和转运

既保证所转运的胶塞、工器具、药品在CLASS A级区装载和转运的安全，不受人为污染，又保证了洁净层流车不破坏所在的工作环境洁净度，不破坏生产工艺环境。

**洁净层流车分类：**

洁净层流车有多种形式，多种配置，也有多种用途，具体划分如下：

按功能划分，洁净层流车分为：胶塞洁净层流车、工器具洁净层流车、洁净服洁净层流车、灌装药品洁净层流车、冻干药品洁净层流车，等等。

**1.按气流流行形式划分:**

洁净层流车分为：水平流型、垂直流型、紊流型层流车。

**2.按配置划分：**

洁净层流车分为：智能控制和普通控制，具有升降平台、对接移门、悬浮粒子在线检测、自动定位、上下料机构，恒风速控制，恒压差控制，等等配置功能。

The clean laminar cart is a movable purification device with a built - in high - capacity battery and DC fan, providing a local CLASS A environment. It is widely used in the pharmaceutical industry for the aseptic docking and transfer of rubber stopper barrels, tools, medicines, etc. It not only ensures the safety of the transferred rubber stoppers, tools, and medicines during loading and transfer in the CLASS A area, preventing human - caused contamination, but also ensures that the clean laminar cart does not damage the cleanliness of the working environment where it is located and does not disrupt the production process environment.

**Classification of clean laminar cart:**

Clean laminar cart come in various forms, configurations, and uses, and are specifically classified as follows:

**Classification by function:**

Clean laminar cart are divided into rubber stopper clean laminar cart, tool clean laminar cart, clean clothing clean laminar cart, filled medicine clean laminar cart.

**Classification by air flow pattern:**

Clean laminar cart are divided into horizontal flow type, vertical flow type, and turbulent flow type laminar cart.

**Classification by configuration:**

Clean laminar cart are divided into intelligent control and ordinary control types, with configuration functions such as lifting platforms, docking sliding doors, on - line suspended particle detection, automatic positioning, loading and unloading mechanisms, constant wind speed control, and constant pressure difference control.

## 技术特点：
## TECHNICAL FEATURES:

①电池续航时长：2~4H。
Battery endurance: 2 - 4 hours.

②自动控制风速，压差；并记录全程工作状态。
Automatically control the wind speed and pressure difference, and record the working status throughout the process.

③门、平台可设计为升降系统，可任意位置定位。
The door and platform can be designed as a lifting system and can be positioned at any position.

④可配置 AGV，自动定位、无人自动运行。
AGV can be configured for automatic positioning and unmanned automatic operation.

⑤可配置尘埃粒子、浮游菌等在线监测系统。
Online monitoring systems for dust particles, airborne bacteria, etc. can be configured.

⑥可配置水平移动模组，或机械手，自动装载或卸载物料。
A horizontal moving module or a robotic arm can be configured for automatic loading or unloading of materials.



## 型号说明：
## MODEL DESCRIPTION:

**CME S - V 1000 D2 / E / AGV**

- CME：洁净层流车。Clean laminar cart.
- S：胶塞 / 瓶塞 / 铝盖。Stopper Rubber stoppers.
- V：V: 垂直流，H: 水平流。V: Vertical flow, H: Horizontal flow.
- 1000：操作舱内长。Length inside the operation cabin.
- D2：两侧移门 D2, 单侧移门 D, 无移门省略。 For two - sided sliding doors, use the notation D2. For single - sided sliding doors, use the notation D. If there are no sliding doors, this notation can be omitted.
- E：升降平台标识，无升降平台省略。Lifting platform marking. Omit if there is no lifting platform.
- AGV：采用智能 AGV 驱动系统。Adopt an intelligent AGV drive system.

# 排烟通风柜
# Fume hood

## 产品概况：
## PRODUCT INTRODUCTION:

FH 系列通风柜是一种产生负压的、防止有毒害气体扩散到室内背景的专用安全通风设备。它配备有排风系统、电磁门连锁系统、密闭系统、专用的HMI(人机界面)和清洁消毒系统。
广泛用于制药、医疗、卫生、动物实验、生物安全试验、实验室等场所的通风和负压保护。
The FH series fume hoods are specialized safety ventilation devices that generate negative pressure to prevent toxic and harmful gases from spreading into the indoor environment. They are equipped with an exhaust system, an electromagnetic door interlock system, a sealing system, a dedicated HMI (Human - Machine Interface), and a cleaning and disinfection system.
These fume hoods are widely used for ventilation and negative - pressure protection in places such as pharmaceutical manufacturing, medical treatment, healthcare, animal experiments, biosafety tests, and laboratories.

## 可选功能:
## OPTIONAL FUNCTIONS:

- 可配置 VAV 变风量，根据门的开启高度自动调节。
  It can be configured with VAV (Variable Air Volume) system, which automatically adjusts according to the opening height of the door.
- 可配置排气废气处理装置。
  An exhaust gas treatment device can be configured.
- 可配置洁净空气处理系统。
  A clean air treatment system can be configured.
- 可配置清洗槽、清洗液接口、清洗水接口。
  A cleaning tank, cleaning fluid interface and cleaning water interface can be configured.



## 型号说明:
## MODEL DESCRIPTION:

FH — □ B / S / F / EX

- EX：防爆型 Explosion - proof type
- F：排气带过滤处理 排气无过滤省略 Exhaust with filtration treatment Omit if exhaust has no filtration
- S：箱体材料：S:不锈钢,Q:钢烤漆，理化板省略 Cabinet material: S: stainless steel, Q: painted steel. Omit if it is physical and chemical board.
- B：带风机，不带风机省略 With fan. Omit if without fan.
- □：（工作区内径规格：宽/深/高，mm）(Inner diameter specifications of the work area: width/depth/height, mm)
- FH：通风柜（FUME HOOD）

## 性能参数:
## PERFORMANCE PARAMETERS:

| 型号 / 参数 Model / Parameter | FH-1200B | FH-1500B | FH-1800 |
|---|---|---|---|
| 气密性 Air tightness | ≤5%VOL/h@100Pa | | |
| 前窗吸入风速 Inlet wind speed of the front window | ≥0.4m/s | | |
| 噪音 Noise | ≤65dB(A) | | |
| 照度 Illuminance | ≥300Lux | | |
| 振动 Vibration | ≤5μm | | |
| 电源 Power supply | AC220V 50HZ | | |
| 最大功耗 Maximum power consumption | 0.4KW | 0.6KW | 0.8KW |
| 外形尺寸mm Overall dimensions | 1200*800*2250 | 1500*800*2250 | 1800*800*2250 |
| 工作区尺寸mm Workspace dimensions | 1000*680*800 | 1350*680*800 | 1650*680*800 |
| 排气管接口 Exhaust pipe interface | DN100 | DN150 | DN200 |

鸿基洁净
HJCLEAN TECH

# 苏州鸿基洁净科技股份有限公司

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