

VHPB灭菌传递舱

VHP sterilizer pass box

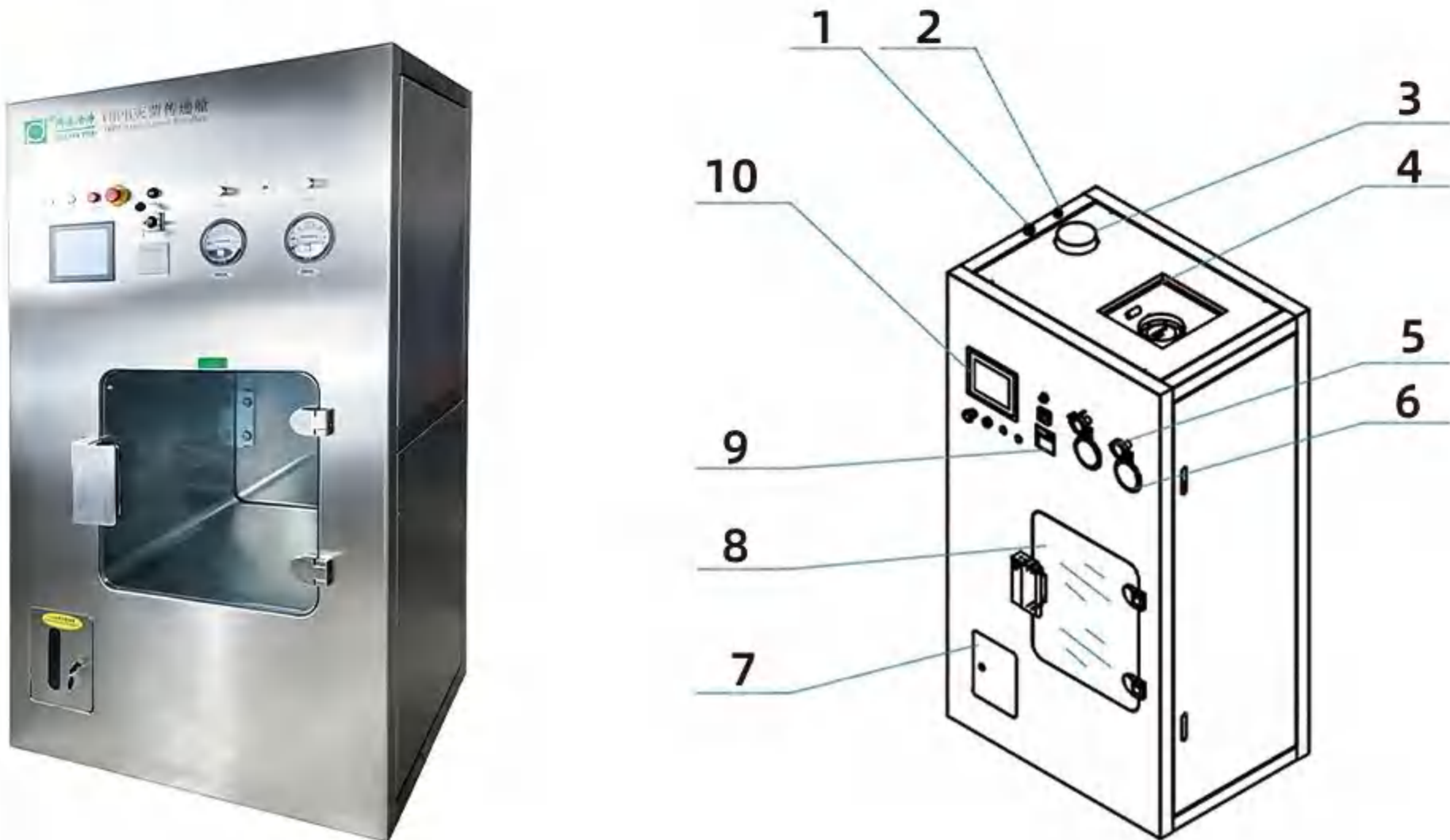
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Patent for Invention: ZL201610220728. 4 ZL201610392506. 0 Utility Model Patent: ZL201320372742. 8 ZL201620294911. 4 ZL201620538698. 7

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

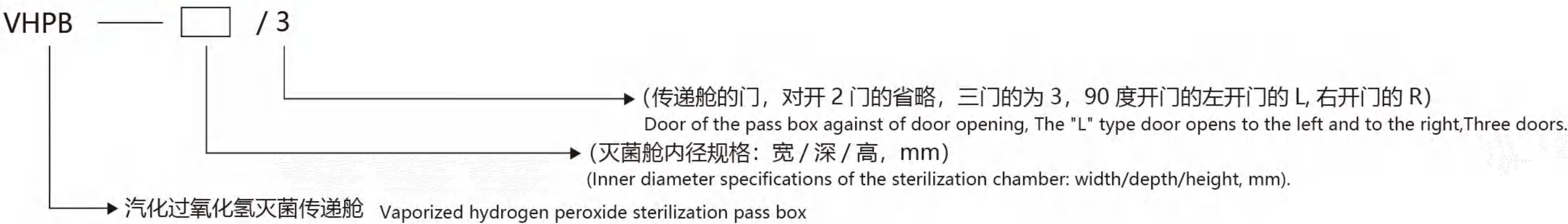
printer

10: 工业电脑

industrial computer

型号说明：

Model Description：



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

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性能参数:

Performance Parameters:

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

