

Technical parameters

Model	BDS-R200	BDS-R600	BDS-R1000	BDS-R2000
Overall dimensions L x W x H (mm)	660 x 850 x 1850	1220 x 1280 x 1600	1220 x 1400 x 1600	1800 x 1500 x 1850
Working area size L x W x H (mm)	560 x 600 x 600	1145 x 680 x 800	1145 x 800 x 1000	1700 x 900 x 1250
Net weight (Kg)	300	400	500	800
Operation weight (Kg)	380	500	600	1100
Cabinet material	316L Stainless steel Mirror plate			
H ₂ O ₂ dosage	6-30ml/m ³ (adjustable)			
Sterilization time	1-60min (adjustable)			
ventilation time	1-300min (adjustable)			
High efficiency filter level.	H14			
Hydrogen peroxide concentration	30-35% (V/V)			
Residual	< 1ppm			
Power supply	380VAC 50HZ 3KW			
Compressed air	pressure: 0.4-0.7MPa flow: ≥ 100L/min			



Developed Assembled & Manufactured by

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BDS-R Series VHP Passbox

VHP Passbox

The VHP passbox is adopted for sterilization treatment of external surface of articles that cannot resist humidity or heat, and is applicable for sterile transfer of materials from the low-grade purification area to the high-grade one, pollution reduction of purification area. It mainly applies to fields like pharmaceutical, bio-experiment and food processing, etc.

Transferable articles: material barrel, open-end vessel, operational tool, experimental apparatus and articles for sealed packaging, etc.



Features:

High efficiency

The process parameters may be flexibly adjusted pursuant to kinds and quantity of transferred articles. One sterile transfer may be completed within 1-2 hours.

Reliable sterilization effect

The distinct "flash evaporation" technology is employed to instantly generate high concentration of hydrogen peroxide vapor (VHPS). A 10⁻⁶ sterility assurance level (bacillus stearothermophilus ATCC 7953) is guaranteed;

The twin-channel detection with high-precision sensors and micro-metering systems are able to accurately control the hydrogen peroxide dosage and ensure the sterilization effect;



VHP Passbox

All the air flowed into or out of inner room in the whole course of sterilization is filtered by H14-class high-efficiency filtration system, avoiding the secondary pollution.

High Security

The integrated design of front & back door covers and cabinet guarantees complete isolation seal;

The dual doors adopt interlocking, and the patented design of active expansion and sealing structures makes the sealing reliable;

The integrated humidity-control function effectively avoids damage of sterilization articles that may be caused by excessive humidity;

The independent ventilation function may rapidly remove the residual hydrogen peroxide gas and promptly lower down the concentration to safety level (1 ppm) after the program ends.

High Automation Level

SIEMENS central control unit is adopted for control, and colored touch screen operation makes it easy for process parameters setting in different program stages. The sensors for temperature, humidity, differential pressure and hydrogen peroxide concentration monitors the corresponding values inside the sterilization room online, ensuring that the sterilization process is accurately running.

Dead-corner-free Design

The internal surface of the sterilization room is polished to a mirror finish, with rounded design and no dead corner for cleaning;

The sterilization room is designed with horizontal laminar flow, ensuring even distribution of hydrogen peroxide gas and no dead corner for sterilization.

The sterilization parameters are printable and recordable

The online printing is available for process parameters of sterilization, which adopts non-thermal printing so as to lengthen data retention time and facilitate the archive management.

Online Monitoring of Filtration System

The air inlet/exhaust filtration is under online monitoring, which monitors status of fan operation and filter usage, and promptly reminds the user to replace the filter.

