STP Sterile Transfer Chamber

ZHEJIANG TAILIN BIOENGINEERING CO., LTD

Description

STP Sterile Transfer Chamber

The STP Sterile Transfer Chamber achieve biological decontamination of the interior space, surfaces, and items (outer surfaces) through an integrated vaporized hydrogen peroxide VH_2O_2 system.

The integrated VH_2O_2 system is linked with the sterile transfer chamber using SIEMENS PLC control.

Communication between the sterile transfer chamber and the VH_2O_2 system allows for the setting of relevant decontamination parameters, after which the system's built-in program supports unattended automatic operation.

Principle

The transfer chamber uses a VH_2O_2 generator to convert liquid hydrogen peroxide solution into a gaseous state, which then diffuses within the sealed chamber to eliminate microorganisms on item surfaces and in the air.

Applications

The transfer chamber is widely used in microelectronics, biological laboratories, pharmaceutical factories, hospitals, and the food industry—any environment requiring air purification. It is suitable for transferring various clean and dry items in sterile production, including the outer packaging of packaging materials, instruments, raw materials, accessories, and environmental monitoring equipment that enter A and B critical areas.

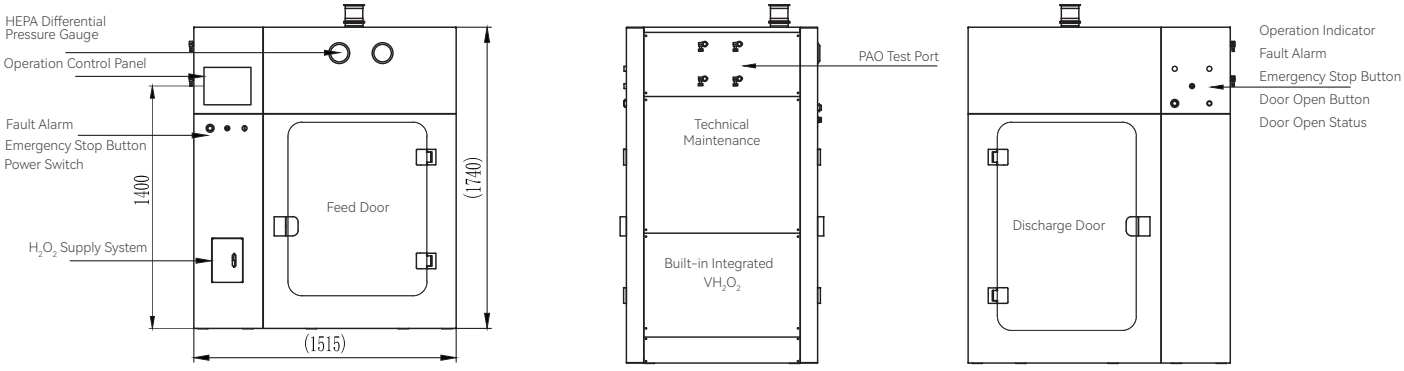
Features

- Using VH_2O_2 102/202 as a biological decontaminant, maintaining a low temperature and normal pressure during the decontamination process, which is efficient and environmentally friendly.
- The system provides real-time monitoring of the temperature, humidity, and pressure inside the chamber.
- Offering a complete 40-cycle program and on-site validation.
- During the biological decontamination and exhaust phases, all air entering the chamber is filtered through an H14-grade HEPA filter to prevent contamination of materials.
- The loading and unloading system features a double-door structure with pneumatic sealing, pneumatic locking, and an interlocking mechanism for the double doors during operation.
- The airflow inside the chamber is turbulent, facilitating gas diffusion when handling multi-layer loads.
- The loading and unloading doors are made of stainless steel frames and high-visibility tempered glass, sealed with pneumatic seals for excellent visibility.

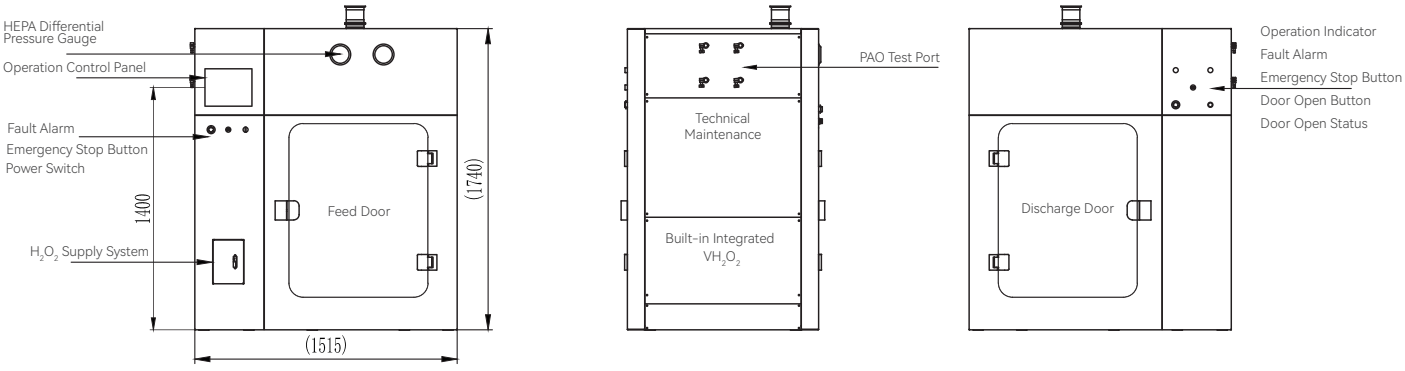
Technical Parameters

Airflow	Turbulence
Cleanliness	GMP Grade A
Biological Decontamination Cycle Time	150 minutes
Biological Decontamination Capability	Log reduction value ⩾ 6
VH_2O_2 Residual Level	⩽ 1 ppm
High-Efficiency Filter Grade	Supply air HEPA (H14 grade), Exhaust air HEPA (H14 grade)
Printing	Includes biological decontamination cycle parameter saving and printing functions
Alarm	High pressure/low pressure alarm, door open timeout alarm, door lock alarm, concentration/temperature alarm
Exhaust Interface	3-inch or 4-inch sanitary interface
Hydrogen Peroxide Gas Decontamination Cycle Interface	1.5-inch sanitary interface
Chamber Material	SUS316L stainless steel

Specifications

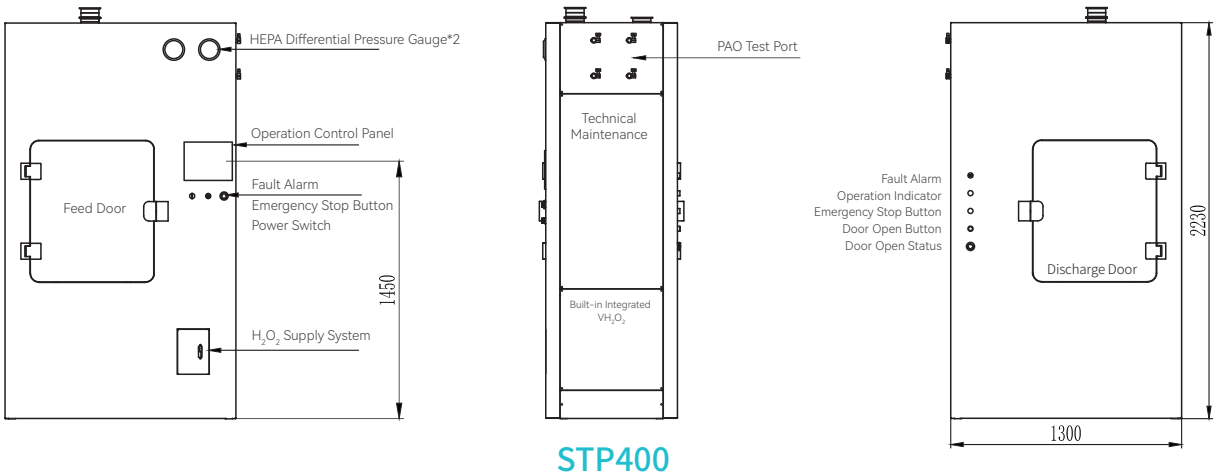


STP1000



STP600

Specifications



STP400

Model	External Dimensions	Chamber Space
STP1000	1515mm x 1176mm x 1940mm	800mm x 1200mm x 1000mm
STP600	1515mm x 1176mm x 1740mm	800mm x 1000mm x 1000mm
STP400	1300mm x 814mm x 1920mm	700mm x 800mm x 700mm

** Customizable*

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 Version: 20240822-01