

NEW Vaporized Peracetic Acid Decontamination system

VPASS™

Automated In-Chamber and HEPA filter Decontamination for BSCs.

VPASS is a fully automated vaporized peracetic acid (VPA) decontamination system designed for biopharmaceutical and life science applications, supporting reliable, reproducible, and compliant decontamination processes.

Key Benefits of VPASS

1. Consistent and Reproducible Decontamination

Automated operation with fixed parameters eliminates operator variability, ensuring uniform and repeatable decontamination performance.

2. Enhanced Operator Safety

Minimal human intervention reduces operator exposure and the risk of secondary contamination.

4. Seamless System Integration

Supports Modbus TCP and Modbus RTU, enabling integration with facility control and monitoring systems.

3. Data Integrity (DI) Support

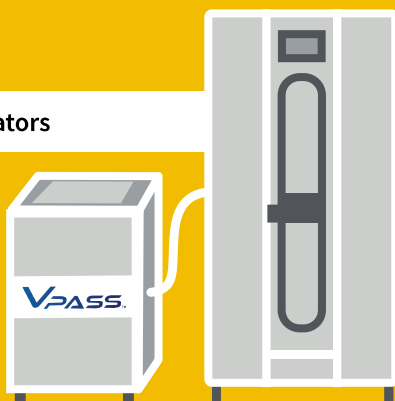
Designed to support GMP data integrity requirements:
User authentication (ID / password)
Audit trail
Data tamper prevention CSV (Computer System Validation) support available.

Applications

Typical cycle time : 2–3 hours (6-log reduction of biological indicators)

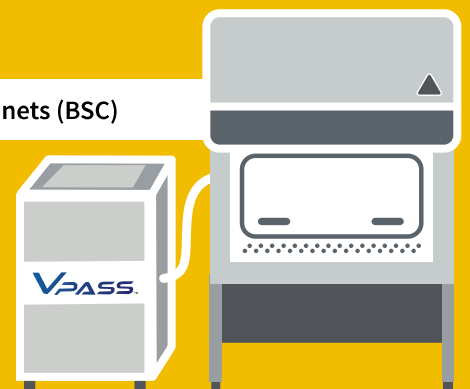
Large CO2 incubators

*Planned to be operated from the N870 control panel



Biological Safety Cabinets (BSC)

* Decontamination performance has been verified on various manufacturers' BSCs.



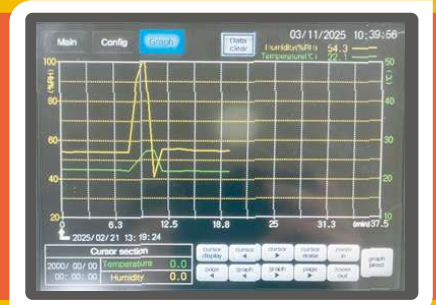
Automated sequence

Intuitive touch panel interface

Decontamination ➡

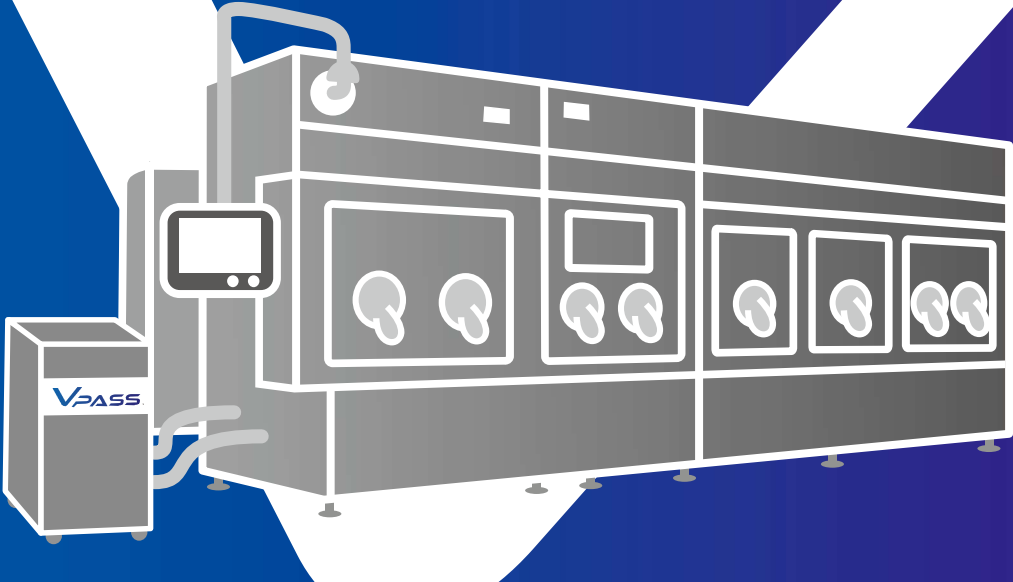
Gas recovery ➡

Chemical drainage ➡



Decontamination can also be performed inside isolators, clean booths, and similar enclosures.

Decontamination time may vary depending on the size and other conditions.



Effectiveness verification using biological indicators (BIs) is available.

Please feel free to rely on us for validation support as well.

Before incubation

Stainless steel dish for BI

After incubation



< Result >

Purple : Microorganisms were killed
Yellow : Microorganisms survived

Technical Specifications (Summary)

Housing material	Stainless steel (SUS304)		
Maximum external dimensions	W643mm×D662mm×H1300mm(Including protrusions, rear handles, and warning lights.) *Actual dimensions may vary depending on the actual unit.		
Operating mode	Fully automatic (Decontamination → Gas recovery → Chemical drainage)		
Safety functions	Automatic blower shutdown (overheating, impeller lock), valve orientation error detection, door open detection, waste liquid bottle detection, emergency stop button		
Gas leakage prevention	Sealing verification mechanism for decontamination targets and piping routes		
Communication interface	Ethernet (Modbus TCP), RS-485 (Modbus RTU), USB-A		
Decontamination agent	Peracetic acid-based disinfectant (VPASS-dedicated agent, RTU)		
Decontamination capacity	Proven: cabinet width up to 2150 mm	Weight	Approx. 140 Kg
Operating temperature	15–30°C (validated environment)	Power supply	AC 100–240 V
Initial operating humidity	RH 45–75% (validated environment)	Supported languages	English / Japanese (switchable)

Validation & Lifecycle Support



In addition to equipment supply, decontamination services and validation support are available.

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