STERIS

STERIS VHP™ DC-A

Decontamination Chamber Atmospheric

STERIS VHP™ DC-A Decontamination Chamber Atmospheric is an optimal solution for material transfer in aseptic drug manufacturing facilities.

A typical application is surface bio-decontamination of pre-sterilized material packages, such as vial stopper bags, wrapped components and syringes.

- STERIS's non-condensing vaporized hydrogen peroxide VHP™ process for 6-log reduction of bioburden.
- Short cycle time with a proven decontamination result throughout the chamber.
- A unique process for reducing particulates on transferred materials.
- The DC-A is completely independent of a building HVAC system. A turn-key solution that is easy to install and validate.
- Optional particle monitoring and control system available.

DC-A Three-Phase Process Cycle

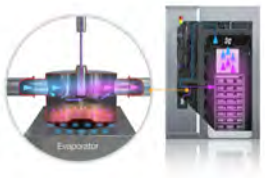
Pre-Conditioning

During the pre-conditioning phase, both the chamber and the load are flushed with a strong airflow. The air is circulated through a dryer unit and HEPA filter in a closed loop configuration to enable reduction in both particulate load and chamber humidity.

With an optional particulate monitoring and control system, the reduction of particulates inside the chamber is measured with a sensor placed in the air channel before the HEPA filter. The HEPA filter integrity can be continuously monitored by an optional on-line measurement.

VHP Decontamination

In the VHP Decontamination step the aqueous hydrogen peroxide solution is flash-vaporized and dispersed into the airstream. Inside the chamber, Vaporized Hydrogen Peroxide (VHP™) gas is circulated by the fan, ensuring even distribution of the gas.



Post-Conditioning

During the Post-conditioning phase, the load is aerated by circulating VHP and air mixture through the catalyzer to remove the peroxide from the load and chamber.

The DC-A includes:

- Chamber doors manufactured from durable and chemically resistant PE-HD material.
- Siemens S7-1500 control system and HMI
- TÜV certified GMP design and comprehensive documentation
- Utilizes STERIS VAPROX™ hydrogen peroxide
- No HVAC connections needed. Utility requirements only include instrument air and 3-phase electricity connections
- Standard loading system design with flexibility for different products and loading configurations
- Current GAMP compliant control system with electronic data security (audit trail, batch reporting, e-signature) enabling 21
- CFR Part 11 and Annex 11 compliance
- Conforms to EU Annex 1 requirements
- Leak rate test per ISO 10648-2 Class 2

Nominal Size (WxHxD)	Chamber Volume (L)
999	800
9912	1000
92115	2300
92118	2750
92121	3200
92124	3700
122115	3100
122118	3700
122121	4300
122124	5000

On special request, maximum chamber volume available is approx. 7500L (122136-DC-A).
To read the nominal size: 999=900x900x900 mm. 122124= 1200x2100x2400 mm.

DC-A Decontamination Chamber Services

In conjunction with the DC-A solution, you can also take advantage of a full portfolio of Services throughout your equipment lifecycle. Whether you have an in-house maintenance team or you prefer STERIS service technicians to manage your needs – we will work together to choose the right approach for you.

- Maintenance Agreements
- Installation and Commissioning
- Qualification and Validation
- OEM Parts and Upgrades
- Training

STERIS is committed to delivering exceptional service and optimizing your overall equipment performance

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