



Life Sciences



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 facility.

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.

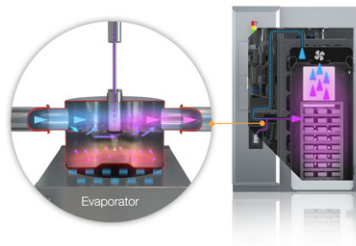


With an optional particulate monitoring and control system the reduction of particulates inside the chamber is measured with a sensor placed into air channel before the HEPA filter. The HEPA filter integrity can be continuously monitored by an optional on-line measurement.



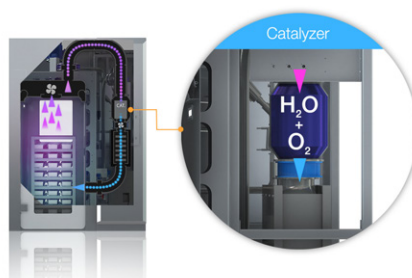
VHP DECONTAMINATION

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.
- CFR 21 Part 11 Compliant SIEMENS S7 1500 control system and 10" Siemens touch screen user interface.
- GMP design and comprehensive documentation
- Utilizes STERIS VAPROX hydrogen peroxide
- Utility requirements include only instrument air and 3-phase electricity
- 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

UNIT SIZE	CHAMBER VOLUME L
DC-A 6-6-9	370
DC-A 6-6-12	490
DC-A 9-9-9	805
DC-A 9-9-12	1065
DC-A 9-21-15	2900
DC-A 9-21-18	3400
DC-A 9-21-21	4000
DC-A 9-21-24	4500
DC-A 12-21-15	3800
DC-A 12-21-18	4500
DC-A 12-21-21	5200
DC-A 12-21-24	6000



VHP 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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STERIS Life Sciences

For over 100 years, STERIS has been known as a global leader, trusted partner and solutions provider in the field of sterilization and contamination control. Today, STERIS continues building on this heritage by advancing the Science of sterilization, cleaning and infection control while offering Solutions that meet our Customers' needs and high standards. STERIS is dedicated to helping you enhance the Life of your patients and the life of your equipment. From Formulated Chemistries, to Capital Equipment, and to Parts and Services, STERIS Life Sciences is your Solutions provider.

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