

The Advantages of Biodecontamination with Vaporized Hydrogen Peroxide (VHP)

VHP provides safe and effective, 6-log sporicidal biodecontamination for spaces and enclosures.

Superior Efficacy

STERIS VHP provides effective 6-log bioburden reduction targeting viruses, vegetative bacteria, fungi and bacterial spores.

STERIS VHP systems deliver a dry hydrogen peroxide vapor that oxidizes microbial cellular components like proteins, lipids and DNA for broad-spectrum microbial kill. The submicron vapor ensures consistent distribution, coverage and contact.

Regulatory Compliance

STERIS Vaprox Hydrogen Peroxide Sterilant is a registered sterilant approved by the Environmental Protection Agency (EPA) and European Chemicals Agency (ECHA), Biocidal Products Regulation (BPR), demonstrating a 6-log spore reduction through rigorous regulatory testing standards.

Maximize Production Time

VHP can be efficiently dispersed using onboard airflow systems or integrated with facility HVAC, ensuring thorough biodecontamination.

Integrated systems offer automated biodecontamination at the push of a button. This eliminates equipment set-up and removal and provides a repeatable process.

Versatility

With STERIS VHP, 6-log bioburden reduction can be achieved in a variety of spaces ranging from small aseptic transfer valves to entire facilities.

Deployment of VHP can be achieved various ways. Mobile generators can be placed inside or nearby the space to be decontaminated, and integrated generators can be piped directly into an enclosure/room or building HVAC system for delivery across a facility.

Material Compatibility

VHP is compatible with a wide range of materials including various metals, polymers and glass and is safely used on sensitive devices such as electronics.

STERIS VHP is a controlled and measurable process eliminating the challenges that compromise efficacy, prolongs cycle time, and causes material damage.

VHP submicron vapor allows for biodecontamination through hydrophobic surfaces such as Tyvek and HEPA filters.

Safety

VHP safely decomposes into water vapor and oxygen. After biodecontamination, aeration using fresh air and/or catalytic systems reduce residual levels to less than 1 ppm, adhering to safety compliance standards.