

## VHP® X10 Biodecontamination Unit Frequently Asked Questions

### 1. What is the X10 Biodecontamination Unit's primary use?

The VHP X10 Biodecontamination Unit is designed for mobile biodecontamination of clean, dry, sealed Class II Type A2 biological safety cabinets.<sup>1,2</sup>

### 2. Does the X10 Biodecontamination Unit produce the same hydrogen peroxide vapor as other STERIS VHP Biodecontamination Units?

The X10 Biodecontamination Unit uses the same patented, STERIS VHP process technology as other STERIS VHP Biodecontamination Units. This process utilizes hydrogen peroxide vapor as a broad spectrum anti-microbial without condensation of the active ingredient onto surfaces with good material compatibility.

The hydrogen peroxide vapor state distinguishes STERIS VHP Biodecontamination Units from other technologies on the market (i.e. fog, dry fog, and micro-condensation) providing the ability to biodecontaminate HEPA filters and other challenge locations within the Enclosure.

### 3. How does the X10 Biodecontamination Unit control the Biodecontamination Cycle?

The X10 Biodecontamination Unit comes with three factory programmed cycles: 3-4' (0.9-1.2m); 5-6' (1.5-1.8m); and XL for biological safety cabinet size; temperature sensor; and relative humidity sensor. Based upon the program selection, the X10 will automatically verify Vaprox 59 Hydrogen Peroxide Sterilant cup and expiration date with VaproxLink™ software technology prior to conditioning the biological safety cabinet to a pre-set temperature and relative humidity level before advancing to biodecontamination in order to limit the possibility of hydrogen peroxide vapor condensation to achieve a minimum of a 6-log bioburden reduction.

### 4. What is VaproxLink software technology?

VaproxLink software technology utilizes radio frequency identification (RFID) to ensure Vaprox 59 Hydrogen Peroxide Sterilant is placed within the X10 unit and is within expiration date.

### 5. Is cycle development required to operate the X10 Biodecontamination Unit?

The X10 Biodecontamination Unit comes programmed with three biodecontamination cycles: 3-4' (0.9-1.2m); 5-6' (1.5-1.8m); and XL for Class II Type A2 biological safety cabinets.

### 6. What components make up a general X10 Biodecontamination System?

A general X10 Biodecontamination System is comprised of an X10 Biodecontamination Unit, an X10 Accessory Case, and X10 Consumables.<sup>3</sup>

The X10 Accessory Case includes: sash adapter with quick connects; plenum adapter with quick connects; and hoses.

The X10 Consumables includes: X10 desiccant and Vaprox 59 Hydrogen Peroxide Sterilant 70mL cup.

### 7. Does the X10 Biodecontamination Unit require dehumidification and conditioning?

The X10 Biodecontamination Unit is an All-In-One unit with its X-Phase™ hardware technology, which enables dehumidification, biodecontamination and aeration in a compact design. The X10 software automatically dehumidifies and conditions the cabinet prior to biodecontamination.

### 8. What type of sterilant does the X10 Biodecontamination Unit use?

The X10 Biodecontamination Unit uses STERIS's proprietary Vaprox 59 Hydrogen Peroxide Sterilant. Vaprox 59 Hydrogen Peroxide Sterilant is designed specifically for STERIS VHP Biodecontamination Units. It is a 59% hydrogen peroxide aqueous solution that is registered with the US EPA (EPA Reg. No. 1043-123).

### 9. How fast is a typical Biodecontamination Cycle with X10 Biodecontamination Unit?

The X10 Biodecontamination Unit is an All-In-One unit with its X-Phase™ hardware technology, which enables dehumidification, biodecontamination and aeration in a compact design.

For a typical 6' (1.8m) Class II Type A2 biological safety cabinet, the total Biodecontamination Cycle is generally 2-4 hours for a 6-log minimum bioburden reduction biodecontamination cycle.

#### 10. What type of control does the X10 Biodecontamination Unit have?

The X10 Biodecontamination Unit uses a basic 4 line, 40 characters per line display and PLC control.

#### 11. What languages are available for the X10 Biodecontamination Unit?

The X10 Biodecontamination Unit is available as a multi-lingual unit (EFIGS – English, French, Italian, German and Spanish). Other languages are available as a special order unit.

#### 12. What voltages are available for the X10 Biodecontamination Unit?

The X10 Biodecontamination Unit is available in 120Vac/1Ø/50-60Hz or 230Vac/1Ø/50-60Hz.

#### 13. When should I purchase the X10 Biodecontamination Unit?

STERIS Life Sciences offers a wide variety of VHP Biodecontamination Units and Biodecontamination Services. Generally, as the frequency and complexity of bioburden control increases, the decision to move from biodecontamination service to mobile biodecontamination unit to integrated biodecontamination unit becomes clearer. STERIS Life Sciences has a solution for all of these instances and can aid in the decision process.

#### 14. Does STERIS Life Sciences offer any accessories, options and sterility assurance products to support the X10 Biodecontamination System?

STERIS Life Sciences offers a wide variety of products specifically designed for supporting STERIS VHP Biodecontamination Units and applications. Refer to the X10 Biodecontamination Unit sell sheet, technical data sheet, operator manual and/or contact your local STERIS Life Sciences representative for additional information/support.

#### 15. Does STERIS Life Sciences offer any additional services?

STERIS Life Sciences Service offers a suite of services for the Customer including the following:

- Biodecontamination
- Preventative maintenance programs
- OEM replacement parts
- Calibration
- IQ/OQ
- Cycle development

## About STERIS Corporation

STERIS Corporation is a leading provider of infection prevention and surgical products and services, focused primarily on critical healthcare, pharmaceutical and research markets around the world. The Company supplies a broad array of equipment, consumable and service solutions that help assure productivity and quality. The Company is listed on the New York Stock Exchange under the symbol STE. For more information, visit [www.steris.com](http://www.steris.com).

STERIS has a comprehensive offering of detergents, disinfectants, skin care products and sterility assurance products that support your needs. We also have world class technical support to design the most effective cleaning program for your facility.

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<sup>1</sup> Refer to the Vaprox 59 Hydrogen Peroxide Sterilant package label and insert for additional information and application instructions.

<sup>2</sup> Refer to VHP X10 Operator Manual for additional information.

<sup>3</sup> Desiccant and Vaprox 59 Hydrogen Peroxide Sterilant sold separately.