

AMSCO®  
**V-PRO<sup>®</sup>maX**  
Low Temperature Sterilization System



STERIS®  


**NEW**  
Faster,  
more versatile!

- > 35min flexible cycle
- > Process Single Channel surgical flexible endoscopes
- > Process Dual Channel surgical flexible endoscopes
  - > Process 10.89 kg of Load including 1 surgical flexible endoscope
  - > Increased instrument compatibility
  - > Ergonomic design

*Your needs, our solutions*

# You need

...to process a maximum of surgical equipment in minimum time

		3 cycles		Each Cycle = 3 phases > Conditioning > Sterilisation > Aeration
<b>Flexible Cycle</b> <ul style="list-style-type: none"><li>&gt; Urethroscope</li><li>&gt; Cystoscopes</li><li>&gt; Bronchoscopes</li><li>&gt; Single channel surgical flexible endoscopes (up to 1050 mm)</li><li>&gt; Dual channel surgical flexible endoscopes (up to 998 mm)</li></ul>		NEW Flexible cycle	35 min	
<b>Non lumen device</b> <ul style="list-style-type: none"><li>&gt; Cameras</li><li>&gt; Light cords</li><li>&gt; Batteries</li><li>&gt; Da Vinci instruments</li><li>&gt; Non-lumened endoscopes</li></ul>		Non lumen cycle	28 min	
<b>Rigid lumen instruments</b> <ul style="list-style-type: none"><li>&gt; Resectoscopes</li><li>&gt; Trocars</li><li>&gt; Cannulas</li></ul>		Lumen cycle	55 min	

## ...to avoid aborted cycles

V-PRO® maX is adapted to moisture and heat-sensitive items that are often difficult to dry completely. The VHP process is designed for electrical items which would not withstand steam sterilization.

## ...to avoid instrument damage

### Low concentration sterilant

59% Hydrogen Peroxide concentration throughout each cycle (against up to 94% for other Low Temperature Sterilizers), which increases instruments compatibility.

### No condensation

V-PRO® maX cycle ensures that the Hydrogen Peroxide does not condense: the gas phase of H<sub>2</sub>O<sub>2</sub> delivers more than 10x higher kill and better compatibility than the same concentration as a liquid.

## ...efficacy

Tested efficacy on a full spectrum of pathogens, including: spores, bacteria, mycobacteria, non enveloped viruses, enveloped viruses, cysts, fungi and protozoa.

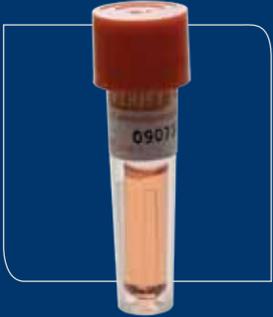
The V-PRO® sterilization system was tested in conformance to PSP Prion and has shown to include prions inactivation.\*

\*Testing was confirmed *in vivo* with multiple strains of prions (including vCJD/BSE) under worst case test conditions and in the presence/absence of cleaning. Fichet, G. E. Comoy, K. Antloga, C. Duval, G. McDonnell, J.P. Deslys. 2004. Novel methods for disinfection of prion-contaminated medical devices. The Lancet 364: 521-526. Fichet G., K. Antloga, E. Comoy, J.P. Deslys, G. McDonnell (2007). Prion inactivation using a new gaseous hydrogen peroxide sterilisation process. J. Hosp. Infect. 67: 278-386.

# V-PRO<sup>maX</sup> Process Indicators

Sterility Assurance is a quality control protocol developed by each hospital to monitor and record the sterilization processes. STERIS supplies a range of tools for this purpose:

## V-PRO<sup>maX</sup> Biological Indicators



Verify<sup>®</sup> V24 Self Contained Biological Indicators



Verify<sup>®</sup> Biological Indicator Incubators

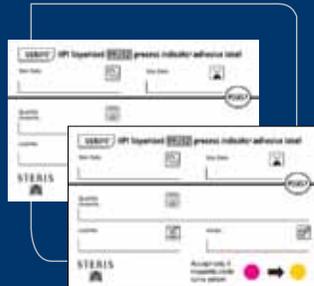


The Verify<sup>®</sup> V24 Self Contained Biological Indicator Test Pack

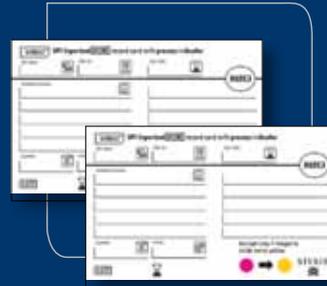
## V-PRO<sup>maX</sup> Chemical Indicators



Verify<sup>®</sup> Vaporized Process Indicator Strips



Verify<sup>®</sup> Vaporized Process Label



Verify<sup>®</sup> Vaporized Record Cards with Process Indicator



# Sterilants and Accessories

Minimal consumables use for a **low cost solution!**

## V-PRO<sup>®</sup>maXX

### Vaprox<sup>™</sup> Sterilant

- > Hydrogen Peroxide delivered in sealed cartridges.
- > 1 standard cartridge = 15 cycles.
- > Vaprox cartridge safe to handle, has a shelf life of 15 months from manufacture.
- > A barcode on each cartridge ensures that expired sterilant is not used to run a cycle.



### Trays and Organisers

- > Plastic trays designed for gas penetration and compatible with the VHP process.
- > 4 sizes available.
- > Organizers available for safer instruments positioning.



### Tray Mats

V-PRO<sup>®</sup> mats are lightweight, durable and allow for sterilant penetration when processing instruments.



## V-PRO<sup>®</sup>maXX

### Tyvek<sup>®</sup> Pouches & Reels

- > Non cellulose material.
- > Outstanding strength, durability and tear resistance.
- > Conforms to EN ISO 11607.
- > Tyvek<sup>®</sup> is a registered trademark of Dupont.



## V-PRO<sup>®</sup>maXX Tape

- > Adhesive tape is available for use with the PolyWrap.



### PolyWrap

- > Nonwoven, 100 % polypropylene material.
- > Complies to EN ISO 11607- 1&2 and EN 868-2.





## ...a sterilization process for wrapped instruments

V-PRO® maX sterilizes instruments in wraps or pouches.

## ...productivity

### 136 L processing chamber

V-PRO® maX enables users to process 20 lumen devices per load.

### Parametric release

V-PRO® maX has been designed and validated to independently monitor the key VHP process cycle parameters allowing for immediate parametric release of processed goods and a higher turnover of material.

### Plasma-free, VHP process

VHP is a powerful biocidal agent which breaks down naturally into water and oxygen, without the need to create plasma.

V-PRO® maX eliminates the need for a space-consuming plasma generating coil inside the chamber.

### Environmentally responsible chemistries

- > 100% biodegradable by products
- > Low utility usage

## ...convenience and low maintenance

### Easy to install

No water, no steam, no compressed air, no special ventilation, no drain required, just electrical installation. Just plug it in!

### Easy to use

- > Ergonomic door design makes loading easy. No handle, just pull and push to open!
- > Large colour touch screen display
- > New printer design for easy view of cycle process.

### Compliant with EU and FDA standards V-PRO® maX is

- > CE marked to the Medical Device Directive
- > Compliant to EN 14937
- > Marketed in the U.S., Europe and Australia and is compliant to U.S./International electrical and safety standards

## Flexibility, Productivity, Efficacy, Ease of use, Low cost per cycle.

- > New 35min flexible cycle
- > 136L chamber
- > Load of 8.9 kg for non lumened endoscopes cycle
- > 20 stainless steel lumen devices per cycle
- > Low sensitivity to moisture avoids aborted cycles
- > Minimized instrument damage
- > 15 cycles per cartridge - multiple load configurations
- > Plasma-free process
- > Sterilizes in wraps or pouches
- > Installed with simple electric plug
- > Wide spectrum efficacy vs. micro-organisms
- > Includes prions inactivation\*

### Continued assistance and low cost maintenance

STERIS service professionals by your side when you need,  
throughout the life of your equipment.



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Technology to Prevent Infection and Contamination™

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