

# SAFETY, RELIABILITY and PERFORMANCE

Transforming low temperature sterilization



# SAFETY

## V-PRO™ Sterilizers are SAFE for the User, the Patient, the Medical Devices and the Environment\*

### No toxic residues are released to the environment, only water and oxygen vapor

- Hydrogen Peroxide emissions from V-PRO™ Sterilizers are well below the established Permissible Exposure Limits (PEL) for all countries where applicable
- The 15-minute Short-Term Exposure Limit (STEL) levels of Hydrogen Peroxide are below all applicable standards

\*V-PRO™ Low Temperature Sterilization System, Environmental H2O2 Safety Profile. Independent testing, using a fully validated OSHA test method, demonstrates industry-leading levels of Safety for Healthcare employees and the environment. For further information and scientific studies visit [www.steris.com](http://www.steris.com)

### Antimicrobial efficacy

- The broad spectrum activity of VHP has been widely studied and published, with known virucidal, bactericidal, fungicidal, mycobactericidal, cysticidal and sporicidal activity
- The V-PRO™ Sterilizer can inactivate TSE prion proteins and reduce the risk of prion infectivity on medical device surfaces\*

### Designed to meet parametric release criteria in accordance to the requirements of EN ISO 14937

The performance of the V-PRO™ maX Sterilizer is ensured through rigorous control and independent monitoring of various critical parameters during the cycle. If any process parameter is outside of the established ranges, the cycle will abort

\*Testing was confirmed in vitro and 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. McDonnell G., C. Dehen, A. Perrin, V. Thomas, A. Igel-Egalon, P.A. Burke, J.P. Deslys, E. Comoy (2013) Cleaning, Disinfection and Sterilization of Surface Prion Contamination. J. Hosp. Infection 85: 268-273. NOTE: These claims and this brochure are for Use only in Europe, Middle East and Africa.

The STERIS Device Testing team has the knowledge, expertise and tools to provide you confidence when reprocessing validated devices. This team works closely with medical device manufacturers to test devices for material compatibility and sterilization efficacy.

The validated list of medical devices for the V-PRO™ Sterilizers is growing. Examples of currently validated devices include:



**Broad device manufacturers endorsements**

<b>Endoscope</b>	Arthroscopes Choledochoscopes Bronchoscopes	Bronchoscopes Intubation Endoscopes	Cystoscopes Laparoscopes	'da Vinci® Endoscopes Rhinolaryngoscopes	Hysteroscopes Ureteroscopes
<b>Endoscope Accessories</b>	Cameras	Sheaths/Adapters/Bridges	Cannulas	Fibre Optic Light Cables	Obturator
<b>Powered Instruments</b>	Batteries	Chuck	Drills	Saws	Handpieces
<b>General Surgical Instruments</b>	Curettes	Forceps	Scissors	Retractors	
<b>Packaging</b>	Wraps	Rigid Containers	Trays	Pouches	
<b>Other Devices</b>	Bougies Transducers	Defibrillation Paddles Ultrasound Probes	Laryngoscope Blades and Handles Gonio/Vitrectomy Lens	Flow probes	



Please scan here

**Discover our online compatibility matrix!**

We constantly update a long list of instruments validated for use in V-PRO™ Sterilizers

'da Vinci endoscopes is a registered trademark of Intuitive Surgical, Inc.

INTUITIVE  
SURGICAL®

**OLYMPUS**

**stryker**

**PENTAX**  
MEDICAL

**STORZ**  
KARL STORZ – ENDOSKOPE

RICHARD  
**WOLF**

ENDO  
OPTIKS

**and many more.**

# RELIABILITY



## Large colour touchscreen and cycle countdown

Colour-coded display screens for easy identification of cycle status



## Plug and play: only a switch on/off button! You just need an electrical outlet

- No special ventilation
- No drain
- No special utility requirement

## Easy and safe handling of VAPROX™ HC Sterilant cartridge

- The teardrop shape of the VAPROX™ HC Sterilant cartridge ensures that only one option of insertion is possible
- No need for medical waste containers. The empty cartridge of VAPROX™ HC Sterilant can be safely discarded as a normal waste



## Easy loading and unloading

2 removable sliding shelves for better ergonomics and ample space for bulky loads

# PERFORMANCE

## Largest Chamber Capacity = Fewer Cycles to Run

**V-PRO™*maX***  
*Low Temperature Sterilization System*  
**is the most productive on the market!**

Non-Lumen Cycle	Flexible Cycle	Lumen Cycle
Up to 23 kg (both shelves) Non-lumened flexible endoscopes.	2 flexible endoscopes; or 1 endoscope and non-lumened load (total of 11 kg combined)	20 stainless steel lumens (single, dual or triple channel devices)

**V-PRO™*60***  
*Low Temperature Sterilization System*

Up to 5.4 kg (both shelves) Non-lumened flexible endoscopes.	1 flexible scope up to 990 mm	12 stainless steel lumens (single, dual or triple channel devices)
---	-------------------------------	--

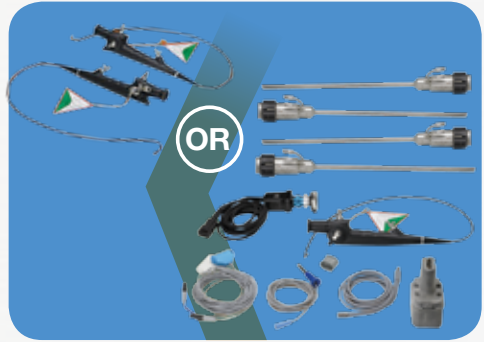
## Exceptional conditioning phase and smart reservoir in the V-PRO™ Sterilizer

- **Moisture check** to verify the load is dry\*
- If moisture is detected, the V-PRO™ Sterilizer will attempt to remove residual moisture from the load and packaging
- Built-in reservoir in the V-PRO™ Sterilizer stores the VAPROX™ HC sterilant before injection during the conditioning phase and prevents the use of VAPROX™ HC Sterilant in case of aborted cycles

\*Users must always ensure the load is thoroughly dried prior to placing the load in the sterilizer

**V-PRO™*maX***  
*Low Temperature Sterilization System*

**Mixed loads:** Process 2 flexible scopes in the same load or a flexible scope + a non-lumen load



## Consistently Fast Cycle Times = Devices Ready When You Need Them

**Non-Lumen Cycle      Flexible Cycle      Lumen Cycle**



**V-PRO™*maX***  
*Low Temperature Sterilization System*



**Mixed loads**

**V-PRO™*60***  
*Low Temperature Sterilization System*



All cycle times include conditioning phase

# DISCOVER

## Different sizes, different needs

Discover our range of V-PRO™ Sterilizers



**Mobile and Compact**



	V-PRO™ 60 Low Temperature Sterilization System	V-PRO™ maX Low Temperature Sterilization System
<b>Overall dimensions (WxDxH)</b>	Counter top version: 787 x 787 x 711 mm	Single Door Recessed: 838 x 962 x 1908 mm
	Cart version: 787 x 787 x 1626 mm	Single Door Cabinet: 838 x 973 x 1908 mm
		Double Door Recessed: 838 x 1010 x 1908 mm
<b>Chamber size</b>	330W x 711D x 254H mm	432 x 381 x 826 mm
<b>Chamber usable volume</b>	60 litres	136 litres
<b>Installation requirements</b>	System installation requires no plumbing, ventilation or air supply – only a dedicated electrical connection is needed. A power cord is supplied for this connection	
<b>Operating temperature</b>	≤ 51.5 °C	
<b>Chamber</b>	Chamber and door assembly are aluminium equipped with a silicone rubber gasket for the door and a welded backhead for the chamber	
<b>Door locking mechanism</b>	Automatic door locking mechanism keeps the sterilization system door locked during the entire Sterilization Cycle. After cycle completion, the door is electrically unlocked	
<b>Sterilant cup interface</b>	Only accepts VAPROX™ HC Sterilant Cups. The system control automatically tracks the amount of VAPROX™ HC Sterilant used and the Sterilant expiration date	
<b>Catalytic converter</b>	Catalytic converter receives outflow from chamber during all cycle phases and converts hydrogen peroxide into water vapor and oxygen	
<b>Control display panel</b>	Control display panel is located on the front of the Sterilization unit. This colour touch panel provides user information and allows user inputs	
	The display is a 640 x 480 pixel resolution, 5.7" screen	The display is a 640 x 480 pixel resolution, 10.4" screen
<b>Printer</b>	Printer is located on the front of the Sterilization unit. This alphanumeric impact printer provides an easy-to-read permanent record of the Sterilization cycle. Printer provides a 5.7 mm, 24-character-wide cycle tape and paper take-up	



**Faster, more Versatile**

962 mm Recessed Single Door  
973 mm Cabinet Single Door  
1010 mm Recessed Double Door



# V-PRO™ STERILIZER DEDICATED SOLUTIONS

Enjoy the full range of accessories and indicators

## Sterilant and accessories



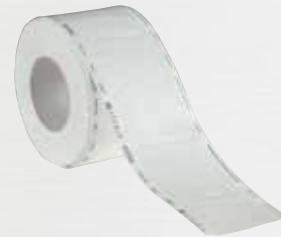
VAPROX™ HC Sterilant



Trays and Organisers



Tray Mats



Tyvek® Pouches  
and Reels



Tape



ZENPACK SMMS  
Polywraps

## Indicators



VERIFY® V24  
Self-contained  
Biological Indicators



VERIFY® Biological  
Indicator Incubators



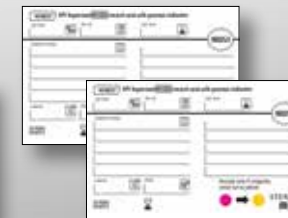
VERIFY® Biological  
Indicator Challenge  
Pack for VH2O2  
Sterilization Processes



VERIFY® VH2O2  
Vaporized Process  
Indicator Strips



VERIFY® VH2O2  
Vaporized Process  
Label



VERDOC® VH2O2  
Vaporized Record  
Cards with Process  
Indicator



VERIFY™ VH2O2  
Indicator Tape

## V-PRO™ Sterilizers - Transforming low temperature sterilization through:

**SAFETY** for the User, the Patient, the Medical Devices and the Environment.  
No toxic residues, only Oxygen and Water

**RELIABILITY** Broad range of device manufacturer endorsements,  
fewer moisture-related aborts increasing productivity

**PERFORMANCE** Faster cycle times and industry leading cycle  
claims will allow for a quick device turnaround and maximizing the  
number of devices per load



## Professional Education & Clinical Expertise

Get connected to STERIS University, encompassing training disciplines and quality Clinical Education, delivered by a team of Expert Industry Professionals.

For more details, ask [educationdesk@steris.com](mailto:educationdesk@steris.com) or visit [university.steris.com](http://university.steris.com)



EMEA CLINICAL EDUCATION  
**STERIS**  
UNIVERSITY

 **STERIS**

STERIS Solutions Ltd  
Chancery House  
15 Rayns Way  
System  
Leicester LE7 1PF  
UK  
Tel: +44 (0)116 274 0600  
[www.steris.com](http://www.steris.com)