Getinge Stericool
H₂O₂ Plasma Sterilizer
An innovative low-temperature solution
An intelligent solution for the CSSD

A trusted solution for sterilizing MIS instrumentation.

Hospital-acquired infections delay patient recovery and cost the healthcare system billions of dollars each year. While there are many elements to an effective infection control policy, instrument sterilization plays an important role in minimizing the risk of cross-contamination.

Many components in advanced surgical tools cannot withstand the heat or pressure of traditional steam sterilizers. This has led to an increasing dependence on low-temperature sterilization technologies to maintain efficient infection control. Getinge’s Stericool Low-Temperature Sterilizers are part of a wide portfolio for the central sterile services department (CSSD), providing the right solutions for hospitals embracing minimally invasive surgical (MIS) procedures as the standard of care.

Getinge Stericool H₂O₂ Plasma Sterilizers offer a range of sizes and sterilization programs (fast, standard, and advanced) to suit a wide range of instruments. All related consumables are available from our global and well-trusted sales and service network, ensuring that Getinge is the complete source for your sterilization needs.

1 https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/1733452
Achieving accurate and consistent results – increasing hospital throughput

Extended life for delicate reusable instruments
Optimized sterilization environment for delicate, heat-sensitive and moisture-sensitive medical instruments resulting in minimum instrument damage and lower repair costs.

Hydrogen peroxide sterilant (H₂O₂) 59% wt
Stericool utilizes highly purified, high-efficacy 59% wt H₂O₂ sterilant cartridges which are authenticated via the sterilizer’s H₂O₂ traceability system. The patented injector technology enables minimum use of sterilant at maximum efficiency.

User-friendly predefined sterilization programs
The Stericool Sterilizers feature three fully automated programs to sterilize a wide range of sensitive medical instruments in less than an hour.

Multiple programs to meet specific needs
The standard program is designed to sterilize general surgical instruments with single-channel flexible and moderate-length rigid lumens. The fast program provides shortened sterilization time for surface sterilization loads. The advanced program is designed to sterilize surgical instruments with long rigid lumens.

Highly intuitive user interface
The Stericool Sterilizer features an innovative, user-friendly interface display. The intuitive design requires less training and can be easily operated by staff at all experience levels.

Optimized material compatibility and efficacy
Patented dual-mode concentrator injector technology allows Stericool to offer both variable concentration and optimized cycle duration for a wide range of material compatibility.
**Easy to learn and operate**

The intuitive design of the human-machine interface (HMI) screen simplifies use and provides clear graphical progress of the sterilization cycle.

**Minimized staff contact with sterilant**

The H₂O₂ sterilant loading compartment locks electronically and automatically pierces containers.

**Improved safety for patients and operators**

State-of-the-art in-chamber RF plasma, created at the end of the cycle, prevents H₂O₂ leakage to the environment and removes residue from instrument surfaces. In addition, a highly efficient in-line catalytic converter prevents release of H₂O₂ from the sterilizer.

**Multiple volumes**

Meet the demanding requirements of your facility with a choice of 110 L and 160 L useable volumes.

**Automatically operated sliding door**

**High instrument throughput**

Two shelves and generous chamber sizes support high throughput.

**Zone separation**

Satisfy zone separation requirements with a double-door option for pass-through operation.

**Highly efficient**

An highly efficient in-line catalytic converter prevents release of H₂O₂ from the sterilizer.

**Easy data management**

External interface for data logging (SD memory, USB and Ethernet), and optional T-DOC connectivity.

**Improved mobility**

Caster wheels offer smooth mobility. Rubber feet are provided.

**Peace of mind**

An optional independent monitoring system (IMS) monitors process data from independent sensors to give users additional verification of process parameters. Process data is also provided in printed reports for load release.
Reducing operating costs

Peace of mind with independent monitoring
Independent monitoring system (IMS) is a documentation system that supports real-time monitoring of critical data from independent sensors to offer additional verification of process parameters. Process data from IMS is printed on a paper report and can be accessed electronically via the T-DOC Sterile Supply Management and Traceability Solution.

Data logging, interoperability
Sterilization process validation logs may be transferred via SD memory card, USB connection or by Ethernet TCP/IP connections to any LAN or WAN network such as the Internet.
Keeping medical staff safe and productive

Ensuring staff and patient safety
Getinge’s Stericool Low-Temperature Sterilizer range has an excellent environmental safety record. At the end of the sterilization cycle, in-chamber RF plasma ensures that there is no sterilant residue left on medical instruments and no residual H₂O₂ leakage from the sterilizer, protecting both staff and patients.

No residual toxic waste or harmful byproducts
The highly efficient in-line catalytic converter provides additional assurance against leakage of residual H₂O₂ to the working environment.

ISO 14937 compliant
Stericool has been validated by an independent, accredited third-party lab. SAL-6 compliant validation studies demonstrated a 10⁶ reduction at the half-cycle using challenging lumens to match IFU claims.

Cost-effective ownership
Easy installation
Plug-and-play Stericool Sterilizers are designed to be mobile and can easily be integrated into healthcare facilities at any scale as they only require a standard power connection (three-phase connection is optional). No extra civil work, water source, drainage, waste management, ventilation, or mounting are required prior to installation.

Ensuring quality reprocessing
Double-door, pass-through operation
Single-door operation is standard. The pass-through double-door option perfectly satisfies zone separation requirements of modern CSSDs. If a cycle is aborted, sterilization loads are delivered back to the processing zone.

Quality
Our products are manufactured under continuous quality control to appropriate medical and product quality standards.

Reducing environmental impact
Easy sterilant loading
Sterilant cartridges are simply inserted into the safe auto-locking compartment at the front. Cartridges feature a protective seal for safe handling.

Intelligent system management
Stericool’s intelligent system management software constantly monitors critical sterilization parameters, providing real-time information on the sterilization cycle progress. Its resident self-diagnostic programs provide guidance for easy preventive action and provide notice of imminent service expiration.

State-of-the-art RF plasma technology
The RF plasma technology gently removes H₂O₂ residuals from within the chamber and from the surface of sensitive medical instruments.
Supporting your workflow
– with a full range of consumables

Sterilant ST240/ST030 cartridges

The H₂O₂ sterilant cartridges have been designed with the operator’s safety and ease of use in mind. When stored at room temperature, ST240 has a shelf life of 12 months from the date of manufacturing and ST030 has 45 days. Each cartridge has unique serial numbers for traceability tracking.

- ST240, 24 cycles for 110 L / 20 cycles for 160 L*
- ST030, 2 cycles for 110 L and 160 L**

Sterilization packaging in a wide range of standard sizes

Made of multilayer PET/PE film and high-grade Tyvek®, Tyvek® Sterilization Rolls and Pouches provide an effective microbial barrier for all your processed hospital instruments. A water-based and non-toxic Type I process indicator on the Tyvek® surface ensures an accurate visual confirmation by color change to differentiate between processed and unprocessed packages.

Getinge Pack Tyvek® Rolls are CE marked and in compliance with international standards ISO 11607-1, ISO 11140-1, and EN 868-5.

**Tyvek® Sterilization Roll**

- 5 cm x 70 m
- 7.5 cm x 70 m
- 10 cm x 70 m
- 15 cm x 70 m
- 20 cm x 70 m
- 25 cm x 70 m
- 30 cm x 70 m

**Tyvek® Sterilization Pouch**

- 7.5 cm x 20 cm
- 10 cm x 28 cm
- 15 cm x 30 cm
- 20 cm x 40 cm
- 25 cm x 45 cm

* Total cycles per cartridge will vary with program selection
** Sterilant ST030 has the same form factor of ST240 and is shipped via air freight

Tyvek® is a registered trademark of E.I. du Pont de Nemours and Company.

GETINGE STERICOOL H₂O₂ PLASMA STERILIZER
Getinge offers a comprehensive portfolio of consumables to support every step of your workflow in the CSSD. All Getinge brand consumables have been tested on Getinge equipment and conform to all relevant performance standards to ensure the quality of your results.

**Monitoring kits ensure peak performance**

A process challenge device (PCD) in your sterilizer provides a snapshot of the conditions inside the sterilizer to ensure that the proper sterilization conditions have been achieved.

**Getinge Routine Monitoring Kit**
The Getinge Routine Monitoring Kit (VH₂O₂) is designed to be used in each sterilization cycle as an independent control device, ensuring that your sterilizer is continuously operating at peak performance. The kit is compliant with ISO 14937 routine monitoring guidelines.

The Getinge Process Challenge Kit (VH₂O₂) includes a reusable device (2 mm* x 1,200 mm) and one box of single-use Getinge Assured Self-Contained Biological Indicators (VH₂O₂). A clear color change confirms exposure to appropriate sterilization conditions.

**Process indicators verify conditions**

These products provide assurance that the pack was exposed to hydrogen peroxide. When a pack is opened, the OR staff can quickly verify that the conditions for sterilization were achieved and that the instruments and utensils are safe to use in surgical procedures.

**Getinge Assured Self-Contained Biological Indicator**
The Getinge Assured Self-Contained Biological Indicator (VH₂O₂) contains Geobacillus stearothermophilus spores (10⁶ population) for biological testing of the sterilizer. After exposure to hydrogen peroxide and incubation for 24 hours at 55 °C, a clear color change will indicate growth or no growth.

**Getinge Assured Plasma Indicator**
The Getinge Assured Plasma Indicator gives visible confirmation that the pack has been exposed to hydrogen peroxide. Can be used as a permanent record.

**Getinge Assured Record Label**
The double self-adhesive Getinge Assured Record Label with process indicators for plasma sterilization allow easy printing of identical labels with minimal time and effort.

* Internal dimension
Take care
– of your investment

Optimizing your equipment’s services is often an untapped opportunity to maximize productivity and reduce costs. A Getinge Care service offering will ensure that your equipment always performs at peak levels, allowing you to focus on saving lives.

**Prevent issues before they arise**
Whether you’re purchasing a low-temperature sterilizer or an entire CSSD, we’ll be there to support you. By following a routine preventive maintenance schedule, Getinge Care keeps things running smoothly, with minimal interruption.

If something should need urgent attention, our certified field service representatives will be there to promptly support you and resolve the issue.

With a Getinge Care package, you can forecast your costs for the full life cycle of your equipment, minimizing unplanned costs. Our financial services team can analyze your needs and numbers to deliver a service package that gives you the best output for your investment. Ask your Getinge representative for more information.

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**Getinge Care Standard**
Supporting your internal technical service department

**Getinge Care Preventive**
Scheduled maintenance intervals maximize uptime

**Getinge Care Plus**
Uninterrupted protection with full cost control

**Getinge Care Premium**
Full coverage for complete peace of mind
## Technical information

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>110 L</th>
<th>160 L</th>
</tr>
</thead>
<tbody>
<tr>
<td>External dimensions (W x H x D)</td>
<td>1,910 x 680 x 864 mm</td>
<td>1,910 x 680 x 864 mm</td>
</tr>
<tr>
<td>Chamber dimensions single-door (W x H x D)</td>
<td>430 x 440 x 739 mm</td>
<td>492 x 532 x 739 mm</td>
</tr>
<tr>
<td>Chamber dimensions double-door (W x H x D)</td>
<td>430 x 440 x 745 mm</td>
<td>492 x 532 x 745 mm</td>
</tr>
<tr>
<td>Internal chamber dimensions (W x H x D)</td>
<td>400 x 405 x 710 mm</td>
<td>460 x 500 x 710 mm</td>
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<tr>
<td>Effective useable volume</td>
<td>110 L</td>
<td>160 L</td>
</tr>
<tr>
<td>Weight single-door</td>
<td>385 kg</td>
<td>395 kg</td>
</tr>
<tr>
<td>Weight double-door</td>
<td>415 kg</td>
<td>430 kg</td>
</tr>
</tbody>
</table>

### Sterilization chamber

<table>
<thead>
<tr>
<th>Sterilization chamber</th>
<th>110 L</th>
<th>160 L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterilization chamber</td>
<td>Rectangular, 316 L stainless steel</td>
<td></td>
</tr>
<tr>
<td>Double-door pass-through operation</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>Shelves (trays)</td>
<td>Two shelves with total load capacity 10 kg</td>
<td>Two shelves with total load capacity 12 kg</td>
</tr>
<tr>
<td>H₂O₂ concentrator</td>
<td>Increases concentration to &gt; 82% wt for improved efficacy</td>
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<tr>
<td>Sterilization temperature</td>
<td>Average 55 °C</td>
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<tr>
<td>Air intake</td>
<td>Through medical-grade HEPA filter</td>
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<tr>
<td>Plasma type</td>
<td>Radio-frequency-excited plasma</td>
<td></td>
</tr>
<tr>
<td>Plasma location</td>
<td>Inside the sterilization cell</td>
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<tr>
<td>Plasma distribution</td>
<td>Homogenous within the sterilization cell</td>
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<tr>
<td>Excess load alarm</td>
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<tr>
<td>Excess humidity alarm</td>
<td>Yes</td>
<td></td>
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<tr>
<td>Excess cellulose content alarm</td>
<td>Yes</td>
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<tr>
<td>Catalytic converter</td>
<td>Yes</td>
<td></td>
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</tbody>
</table>

**Standards**

EN ISO 13485, EN ISO 9001, ISO 14937 validated sterilization cycles and full CE (EMC EN 60601-1-2, LVD IEC 61010-2-040, and LVD IEC 61010-1) certification