

GETINGE

GETINGE SYSTEMS
FOR SECURING HEALTH AND
EFFICIENCY IN SMALL DENTAL
AND HEALTHCARE CLINICS





BETTER HEALTHCARE AND LOWER COSTS

One important goal of all healthcare treatment is preventing microbial infection among patients and medical staff. The use of disinfection and sterilization systems is therefore vital to safeguarding health as well as avoiding the additional costs, lost working hours and suffering that results from infections originating from treatment or care (known as hospital-acquired infections or nosocomial infections). The increase in antibiotic-resistant bacteria, the lowered resistance of infants and the elderly, and the difficulty of cleaning complex modern equipment are major factors that may give rise to the development and spread of infection in healthcare environments.

Demanding added value

When choosing disinfection and sterilization systems, other considerations arise. These primarily concern satisfying the constant demand for higher performance at lower cost by providing:

- rapid, reliable and cost-effective processing of soiled goods
- efficient goods handling and management systems to ensure smooth recirculation of items
- minimal use of utilities
- fast installation and seamless integration of new systems.
- good system support during the lifetime of equipment.

All of these factors give added value throughout the system lifecycle.

Pursuing good ergonomics

A further significant consideration is the location of disinfection and sterilization units, along with ancillary equipment. Achieving a good ergonomic environment for the medical or dental practitioner not only promotes

a smooth workflow, but it also enables a greater patient turnover with subsequent reduction in costs.

FACTS

Disinfection:

the killing of non-sporiferous and vegetative microorganisms. Steam and hot water are the most common and effective agents used in healthcare environments.

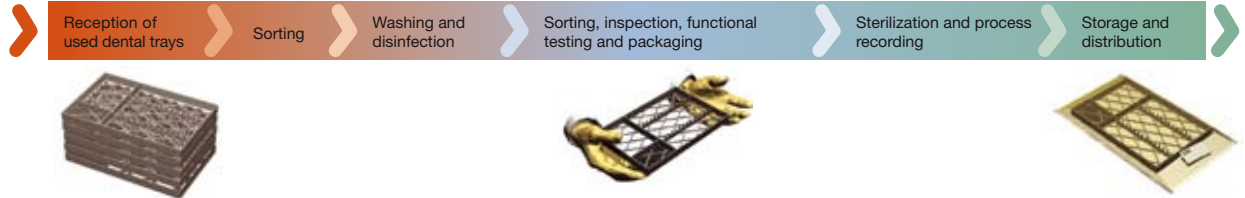
Sterilization:

the killing of all microorganisms (including sporiferous species) that are fairly insensitive to heat. The safest and most cost-efficient method is using saturated steam under pressure to achieve sterilization under well-defined conditions of time and temperature.



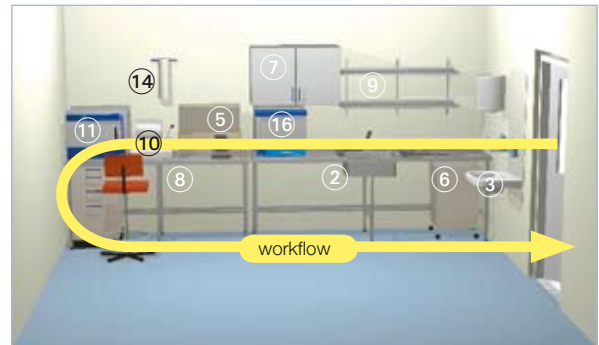
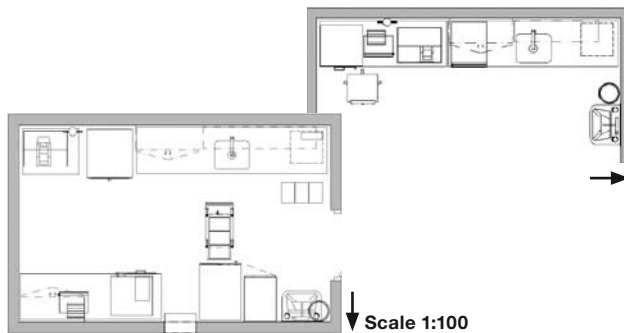
SMOOTH WORKFLOW IN SMALL HEALTHCARE/DENTAL CLINICS

Dental tray workflow



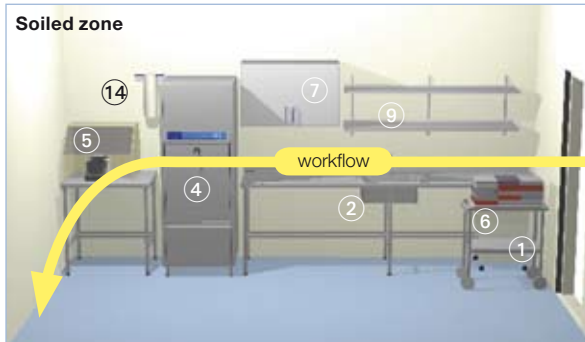
Interior design examples

The examples below show two different equipment setups in small clinics. One design uses only part of a room, the other has both a soiled zone and a clean zone in the same room.



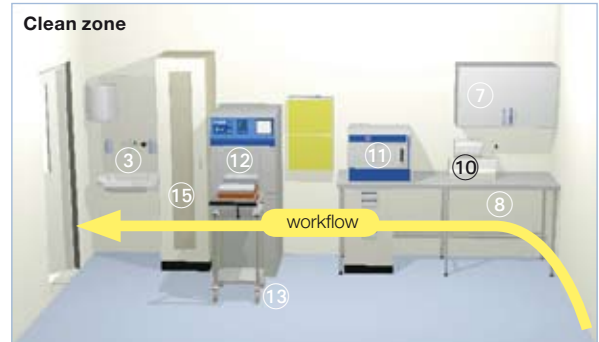
Example 1, limited space

A typical Getinge installation design for a dental clinic with limited space. All equipment is located at one end of the room.



Example 2, soiled and clean zones

When a whole room is available for the disinfection and sterilization of goods, then a typical Getinge installation design divides the room into a soiled zone and a clean zone.



Key to main equipment shown in illustrations:

- 1 Transport trolley, 2 Worktable with sink, 3 Hand washbasin, 4 Getinge 46-series washer-disinfector, 5 Vented hood, 6 Trash bin, 7 Storage cabinet, 8 Worktable (height adjustable), 9 Wall shelf, 10 Sealer, 11 Getinge K5/7 tabletop sterilizer, 12 Getinge HS 33 steam sterilizer, 13 Loading trolley, 14 Water deionizer, 15 Storage cabinet, 16 Getinge 1345 washer-disinfector.

Getinge SteriStack™ – a compact workstation

If you only have a very small space available for disinfection and sterilization, the Getinge SteriStack™ unit is ideal as it requires no more than 600 x 1900 mm (2.0 x 6.2 ft) of floor space.



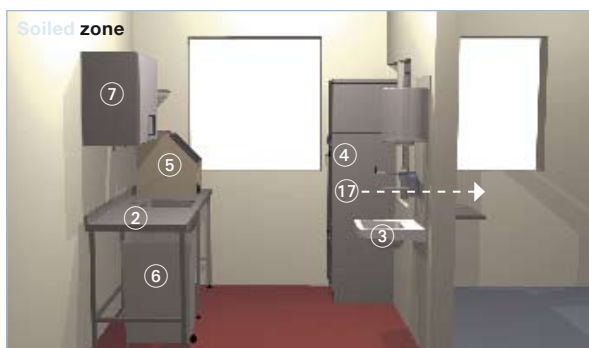
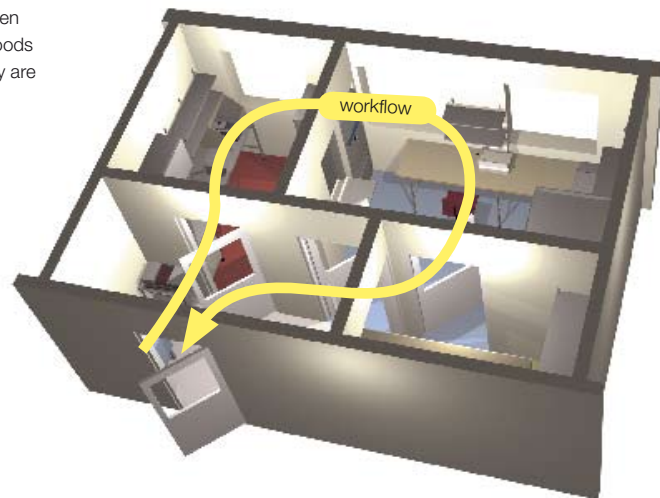
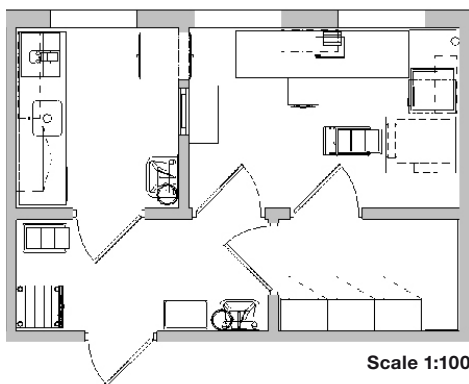
SEAMLESS GOODS RECIRCULATION IN HEALTHCARE CLINICS

Pack and tray workflow

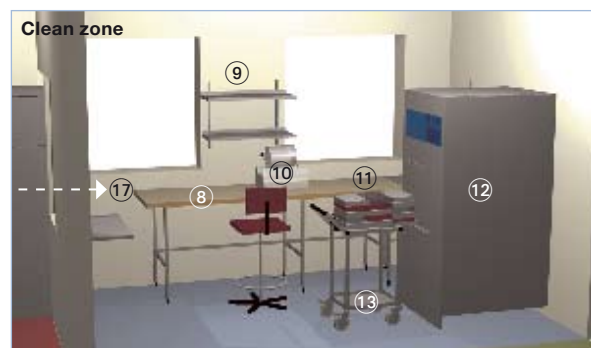


For healthcare clinics, Getinge designs primarily involve the location of equipment in a soiled zone, clean zone and sterile zone to achieve seamless goods recirculation.

Soiled goods are first received in the reception area. They are then sorted, washed and disinfected in the soiled zone. From here the goods are inspected, packaged and sterilized in the clean zone. Finally they are stored in the sterile zone ready for distribution.



Washing and disinfection



Inspection, packing and sterilization



Sterile storage

Reception

Key to main equipment shown:

- 1 Transport trolley, 2 Worktable with sink, 3 Hand washbasin, 4 Getinge 46-series washer-disinfector, 5 Vented hood, 6 Trash bin, 7 Storage cabinet, 8 Worktable (height adjustable), 9 Wall shelf, 10 Sealer, 11 Getinge K5/K7 tabletop sterilizer, 12 Getinge HS33 or 2406 steam sterilizer, 13 Loading trolley, 14 Storage shelf, 15 Storage cabinet, 16 Getinge 600-series flusher-disinfector, 17 Sliding hatch.

GETINGE IS THE ANSWER

When it comes to integrated disinfection and sterilization systems, including validation and support, Getinge is the answer. We can satisfy virtually all the needs of healthcare facilities, ranging from small one-person practices to healthcare centers with several beds. Our systems and application expertise cover the complete processing cycle from soiled goods to the distribution and storage of sterilized items.

If you want one-stop shopping to secure the quality of care and cut costs in your healthcare environment, then make Getinge your partner.

Long economical lifecycles

The short processing times and high capacity of our systems mean that fewer instruments are needed for patient treatment because they are sterilized and reused quickly. Costs are also reduced, e.g. when a high-cost sterilizer with overcapacity is replaced by a small, low-cost Getinge sterilizer that satisfies processing demands. The minimal use of utilities by our sterilizers further cuts running costs.

The high quality and high performance of our systems that have made Getinge the world leader in disinfection and sterilization assure optimal lifecycle economy.

Complete customized solutions

Our systems are based on compatible modular units that can be rapidly integrated and installed to form complete customized solutions. These include management systems for the total control, traceability and quality assurance involved in the processing and handling of sterilized goods. We even have a department that creates installation drawings for optimal ergonomic workflows.

Getinge is familiar with both European and North American regulatory standards, and follows the norms and guidelines of the country of machine destination.

By dealing with just one competent company, you save a lot of time, effort and costs.

Caring for the environment

Wherever possible, Getinge employs production methods, materials and energy-saving features that minimize the impact of manufacturing and system operation on the environment.

We're here to stay

Because Getinge is a global company – with over 60 years of dedication to the healthcare sector – we have the resources to take care of your service, maintenance and other support needs wherever you are. We also provide a range of training programs.. The Getinge Academy offers numerous courses on the safe and efficient handling of medical-technical equipment. You're in safe hands with Getinge.



VERSATILE SMALL-SCALE DISINFECTION

Flusher-disinfector

The Getinge 600-series flusher-disinfector is designed for emptying, cleaning, thermal disinfection and convection drying of human waste containers. These include bedpans, urine bottles, wash basins, suction bottles, dropped instruments, bowls and cleaning buckets. All human waste is flushed out of the chamber prior to the washing phase.

This top-loaded unit has a built-in steam generator for safe and inexpensive disinfection. The chamber volume is 70 liters (2.4 ft³). A slanting top facilitates loading/unloading at a convenient height of 800 mm (31.5 inches) or more above floor level. Wall-mounting is possible for easier floor cleaning.



KEY BENEFITS

Getinge 600-series

Foot pedal promotes hygiene

A foot pedal for automatic lid opening/closing minimizes the risk of hand contamination.

Automatic turning device

An option that operates when the machine lid is closed, for facilitating goods handling and preventing external aerosol dispersion.

Rimflush function

Diverse containers are emptied directly and larger impurities are flushed away by using the rimflush button.

Quiet operation

The double-insulated lid results in quiet operation and minimal heat loss.

Washer-disinfector

Specially designed for small wards, clinics and dental units, the Getinge 1345 tabletop washer-disinfector combines high capacity with easy and cost-efficient operation.

It processes an extensive range of reusables and enables fast recirculation times. The volume of the front-loaded chamber is 60 liters (2.1 ft³), which easily accepts surgical instruments, dental instruments including handpieces and turbines, dental trays and utensils. The Getinge 1345 can wash and disinfect up to 2 small (SPRI size) instrument trays per load or 10 dental trays together with an injector bar for washing up to 10 handpieces. Getinge 1345 is also suitable for ophthalmology instruments.



KEY BENEFITS

Getinge 1345

Short wash cycle

The normal wash cycle is greatly reduced (to just 26 minutes) with double heaters and connection to hot water.

Good ergonomic design

This tabletop washer is at a convenient height for operating staff, unlike under-the-counter models.

Automatic opening

Once the wash cycle is complete, the door automatically opens slightly to allow washed items to self-dry and cool.

Tubular instruments washed

A special injector bar enables tubular instruments, hoses, dental handpieces, mouthpieces, etc. to be washed.

Quiet operation

Double-insulated walls result in low noise and minimal heat emission.

MULTIPURPOSE, HIGH-CAPACITY DISINFECTION

The unique Getinge 46-series is a smart washer-disinfector family that offers efficient reprocessing for reusables in wards, outpatient clinics, surgical departments and similar institutions. The Getinge 46-series is the answer when a high throughput of reusable items is required.

A wide range of unique wash carts has been customized for loading customer-specific goods. This versatility saves time, effort, energy and costs. Additionally, these washer-disinfectors not only meet all relevant standards of today, but have also already been tested and approved in accordance with the forthcoming EN/ISO 15883 standard.



Getinge 46-2

The Getinge 46-2 has been specially developed to meet the needs of wards and outpatient clinics. It cleans and disinfects reusables and instruments – even tubular ones – on two levels. Specially adapted accessories optimize the capacity of the machine. The Getinge 46-2 is available as a single-door model and is electrically heated.

KEY BENEFITS

Getinge 46-2

Short wash cycle

The normal wash cycle (including drying) can be reduced significantly to 36 minutes by selecting the “OP Short” program.

Price vs capacity

The relation between capacity and price makes the Getinge 46-2 very competitive!

Ergonomical loading and unloading

The ergonomical handle and a loading height of 700 mm (27.6 inches) eliminate strain on the user's back and shoulders.

Getinge 46-4

Getinge 46-4 allows washing, disinfection and drying of solid and tubular surgical instruments, rigid endoscopes, instruments for minimum invasive surgery, utensils, anesthetic and respiratory equipment and dental goods, as well as bottles, glassware and other tubular devices – on four levels. The Getinge 46-4 is available in single- and double-door (pass-through) models. Steam- and electrically heated models are available.

KEY BENEFITS

Getinge 46-4

Short wash cycle

The normal wash cycle (including drying) can be reduced significantly to 36 minutes by selecting the “OP Short” program.

Outstanding capacity and flexible accessories

The Getinge 46-4 can wash and disinfect up to 8 large (DIN size) instrument trays, up to 36 dental trays, and with an injector bar for washing up to 80 tubular items. There is also an extensive range of accessories to meet customer demands.

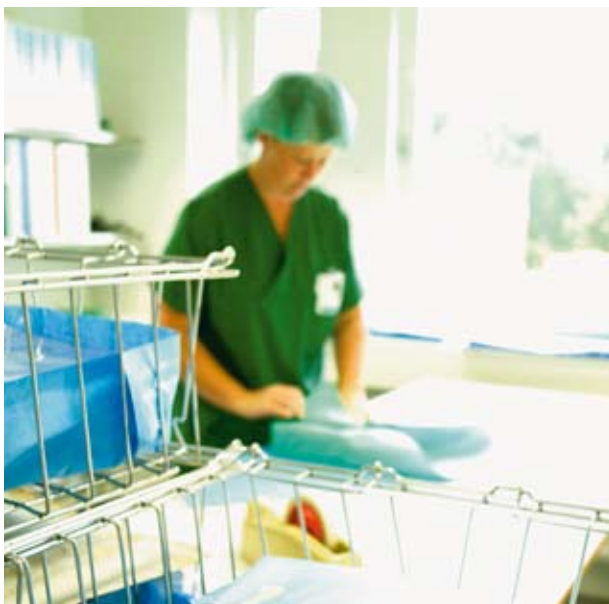
Double-action drying

Both internal and external surfaces are dried with preheated air which passes through a heat exchanger that pre-heats the incoming air. This means optimum drying conditions, fast drying times and reduced energy costs. The outgoing air also passes the heat exchanger where it is cooled.

Quiet operation

Double-insulated walls result in low noise and minimal heat emission.

EFFICIENT SORTING, INSPECTION AND PACKING



On leaving the washer-disinfector, the clean goods are taken to an area used for sorting, inspection (including functional testing) and packing. For these tasks Getinge has a full range of practical and easy-to-use accessories that can be adapted to meet different needs.

It is worth noting that in clinics with a goods circulation system, the only times items leave the trays or other containers are at the point of use and at the point of inspection of clean and disinfected goods.

After packing, the instrument trays are placed in the sterilizer. Fabrics are sorted, packed and labeled in a separate area before being sterilized.

All workflow tasks

The Getinge accessory range covers all workflow tasks, from unloading of washer-disinfectors, through drying, transport, inspection and assembly, to packing, sealing, labeling, storage and loading equipment. A typical selection of accessories is shown on this spread; the full range is presented in the Getinge Accessory Catalogue.



Roll dispenser with cutter

- Convenient
- Versatile
- Safe



Paper-dispensing trolley

- Versatile
- Convenient
- Mobile



Height-adjustable packing table

- Adjustable for individual needs
- Clear access to working surface
- Good ergonomics for smooth workflow



Table trolley for transport and general storage

- Multipurpose
- Ergonomic
- Easy to handle



Ultrasonic cleaners

- Efficient
- Easy to handle
- Available in various sizes



Impulse heat sealers

- Automatically adjusted temperature
- Space-saving
- Ideal for smaller clinics



Freestanding wire storage shelf

- Good ventilation and easy inspection
- Modular design facilitates customization
- Easy to clean



Manual loading trolley

- Rapid loading/unloading
- Smart locking device
- Ergonomic

HIGH-SPEED STERILIZATION™ SUPERIOR EFFICIENCY AND SAVINGS

Getinge K-series tabletop sterilizers – K3, K5 and K7 – provide very short and effective sterilization cycles for various small healthcare units. High-speed sterilization means that the number of items being recirculated in a clinic can be drastically reduced, making sterile items quickly available for reuse.

The major difference between the models is the size of the rectangular chamber, which provide higher capacity than round chambers.



KEY BENEFITS

Getinge K-Series

Short cycle times

The Getinge K-series features extremely short cycle times. For wrapped instruments (B-cycle), the standard cycles are:

Getinge K3 ~ 23 min

Getinge K5 ~ 25 min

Getinge K7 ~ 27-30 min

Moreover, for dropped instruments, an extremely fast flash cycle is available, e.g. 7 minutes with Getinge K3. The combination of rapid processing and high loading capacity of the Getinge K-series provides the shortest goods recirculation times possible.

Safe for users

As the inner door surface is very hot after a process cycle, the horizontal sliding-door design protects users from injury. The design also enables smoother loading/unloading and is ideal for small work areas.

Water- and energy-saving

Deionized water consumption is only about 0.2-0.4 L/cycle. The Getinge K-series is easily connected to external water supply. The unique energy-storing steam generator gives instant access to the sterilization process in stand-by mode.

Versatile accessories

A wide range of accessories, including baskets tray holders, handles and other loading aids, allows you to tailor a model to suit your particular applications.

Long product lifecycle

The pressure vessel has third-party certification from Det Norske Veritas (DNV) for 50 000 process cycles.

The capacities of the three models are:

• Getinge K3

6 dental trays (3 with lids) or 3 instrument trays
(330 x 190 x 38mm)

• Getinge K5

10 dental trays (5 with lids) or 5 instrument trays
(330 x 190 x 38mm)

• Getinge K7

10 dental trays (5 with lids) + 10 half-size dental trays
(5 with lids) or 5 instrument trays (330 x 190 x 38mm) + 5 instrument
trays (100 x 190 x 38 mm)

MULTIPURPOSE STEAM STERILIZERS

The Getinge HS 33 sterilizer is a further development of the Getinge K-series. It can handle all the sterilization needs of small clinics and healthcare centers.

A manual or automatic vertical sliding door is offered for minimal space and user safety. Single- and double-door (pass-through) versions are available. A good choice of programs is provided.

With a chamber size of 600 x 320 x 320 mm (~ 60 L or 2.1 ft³), the Getinge HS 33 has a capacity of:

- A full STU unit
- 18 trays with a dental rack option

KEY BENEFITS

Getinge HS 33

Short cycle times

The minimal cycle times are 25 minutes for wrapped instruments and 9 minutes for unwrapped items.

Low water consumption

About 60 L (2.1 ft³) for a standard cycle.

Easily installed

The Getinge HS 33 is just 600 mm (23.6 inches) wide, which allows easy installation.

Smart accessories

The thoughtful design of accessories facilitates load handling.



Getinge 2406/2410 sterilizers are specially designed for smaller sterile supply units, operating departments, and outpatient and dental clinics. All versions in this series give you optimal lifecycle economy through a combina-

tion of high performance, minimal running costs and high-quality components. Single- or double-door (pass-through) versions are available.

Vertical sliding doors contribute to system safety.

KEY BENEFITS

Getinge 2406 and 2410

Minimal running costs

Running costs of these sterilizers are reduced by advanced cooling and vacuum systems. These result in shorter process times and cut total water consumption up to an amazing 75 % compared with normal requirements thanks to our unique ECO system.

Small footprint

This sterilizer has all features of a CSSD production sterilizer but with small exterior dimensions.

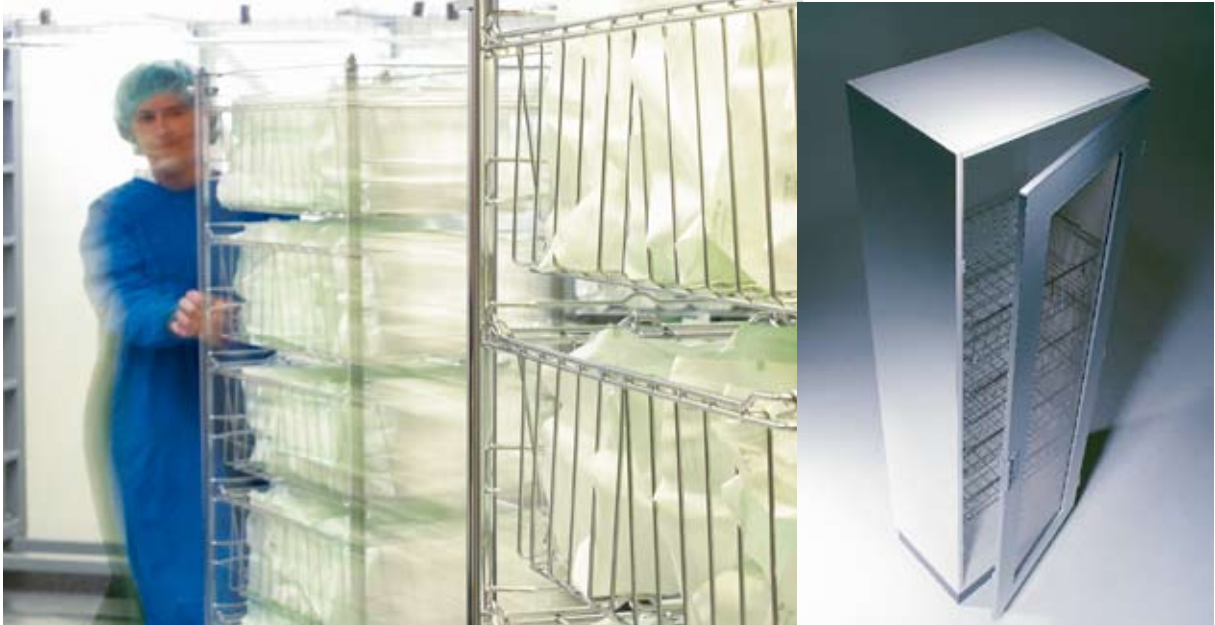
Single- or double-door

The model range included 2-door sterilizers for pass-through work flow arrangements as well as a single-door solution.



PRACTICAL STERILE STORAGE

Getinge has developed a versatile distribution and storage system that makes the circulation of sterile goods simple, ergonomical and efficient.



The BUS system

The heart of this system is the BUS (Base Unit Supplier), a range of practical trolleys that reduce lifting by staff, facilitate cleaning, save storage space and speed up the supply of sterile goods.

For small clinics and healthcare centers, the mobile Jubilee BUS is ideal as it is designed for a mix of containers and baskets, or for containers only. It can be adapted to your specific needs for optimal use. As it is just 1 530 mm (5 ft) high, loading and unloading are easy. Containers are placed on extendable shelves that can also be used for the storage of instrument trays.

Modular storage cabinets

Freestanding modular storage cabinets are designed for use with Getinge's SPRI modular wire basket system.

This cuts reloading to an absolute minimum to save both materials and labor. Designed to maximize capacity utilization, the cabinets allow baskets to be placed close together on insert brackets. There are two models for loading baskets with either the long side or short side facing the door.

Basket racks

When greater storage space is required, single or double basket racks are supplied for Getinge SPRI modular wire baskets kept in storage and/or prestorage of clean packed goods. The rack is designed as an open unit to promote aeration of sterilized goods and to facilitate inspection of stored goods. Baskets are loaded and unloaded by conveniently sliding them on rigid horizontal guide rails.

SECURING TRACEABILITY AND QUALITY ASSURANCE

The Getinge T-DOC system for processing and managing sterile goods helps you secure article traceability and quality assurance. Being a software system that uses scanners and barcodes to gather information, it simplifies process documentation, work planning, quality assurance and financial management.

The T-DOC system consists of several software modules, two of which are particularly suitable for smaller clinics. These are presented below.

T-DOC 1000 Cycle

This software module focuses on documenting process data mainly from Getinge washer-disinfectors and sterilizers. You gain safe and easy electronic storage of your machine process data by connecting the sterile process equipment to a local computer running the T-DOC 1000 Cycle software. The logged data is real-time data, and includes cycle phase, temperature and pressure values (except the latter for washer-disinfectors). Charts and graphs can be generated for each cycle.

T-DOC 1000 CSM Label

This software module gives you the essential first level of article traceability. In its basic form, T-DOC 1000 CSM Label offers easy printing of tray lists and labels as well as a structured database for collecting, storing and organizing your sterile services information. Moreover, T-DOC 1000 CSM Label can be enhanced to include traceability to sterilizer processes, a further step towards full traceability.

KEY BENEFITS

T-DOC 1000 Cycle

- Easy access and archiving of process information
- Relevant process statistics
- Monitoring performance of process equipment
- Structured record keeping
- Fast and easy process search
- Good data presentation/graphical interface
- All sterilizer data at a central location
- Production history and analysis

KEY BENEFITS

T-DOC 1000 CSM Label

- Quality assurance
- Readily available, updated and reliable information
- Instrument information from a single data store
- First level of traceability
- Reduced manual data processing, and thus reduced costs



Getinge provides complete solutions for effective and efficient cleaning, disinfection and sterilization in the healthcare and life science sectors. Our know-how comprises everything from architectural planning, production and handling equipment, to systems for full traceability of sterile goods. Our commitment covers expert advice, training and long-term technical support.

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