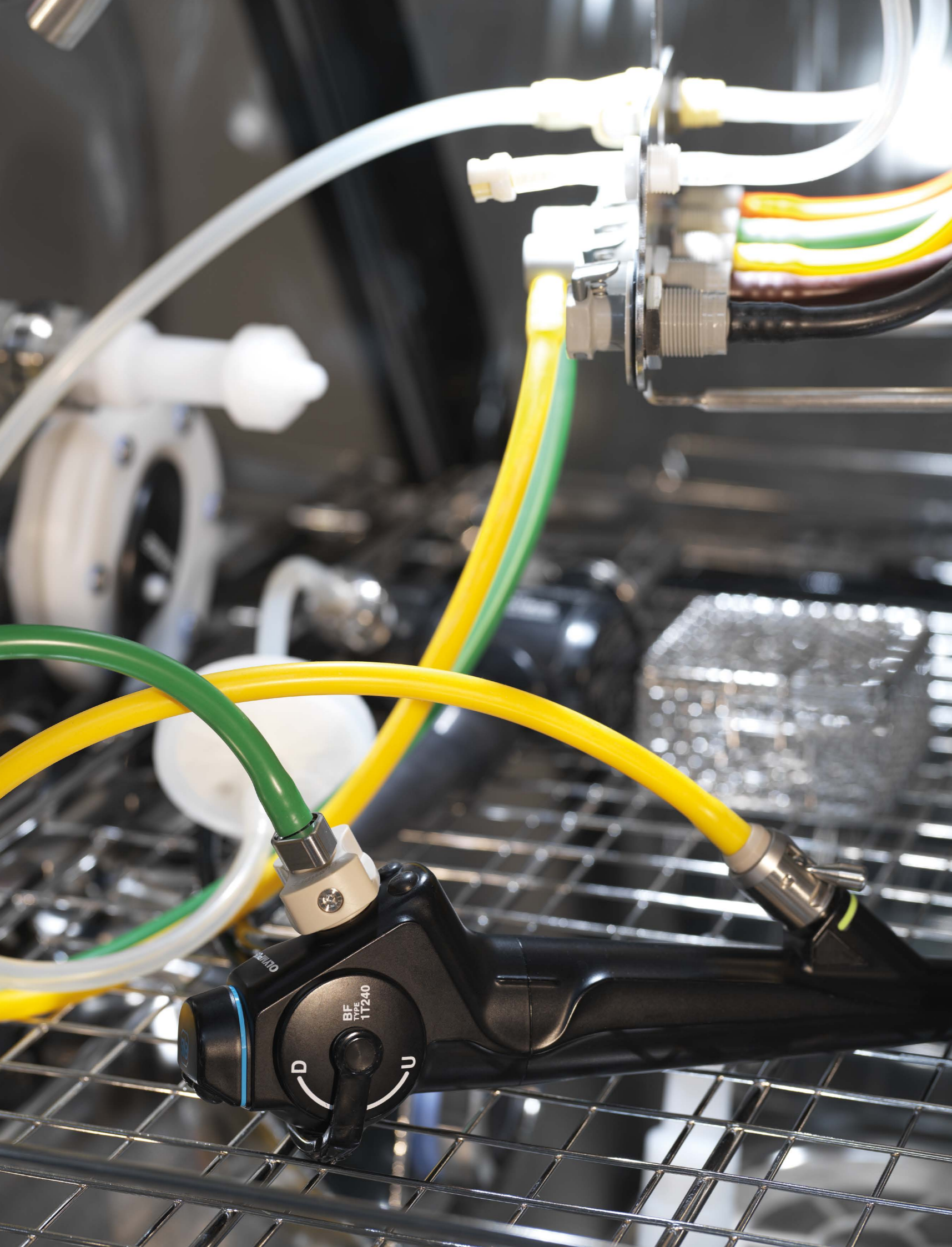




## Endoscope Reprocessing Range

Take control of your endoscope workflow



# Trust our expertise in endoscopy

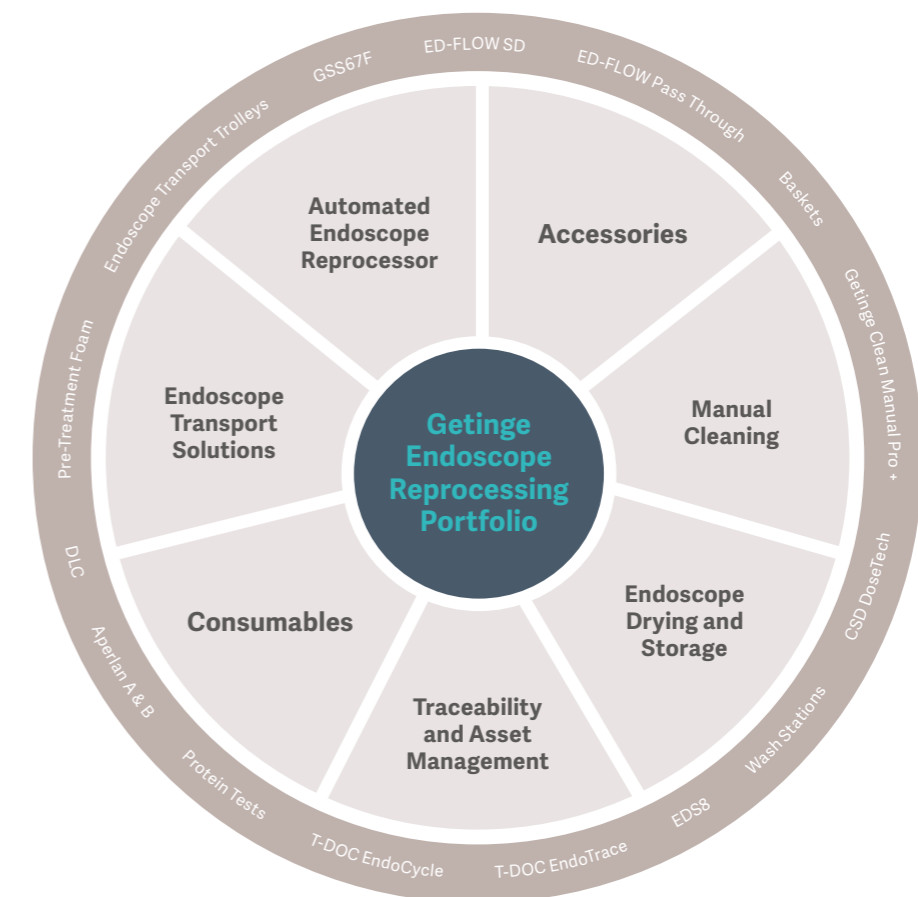
## Endoscope reprocessing

Our comprehensive range of automatic endoscope reprocessors, detergents, and storage solutions are designed to consistently, accurately, and cost effectively promote efficiencies & quality in healthcare environments.

Your facility has a zero-tolerance approach to endoscope cross-contamination. So do we.

We created a comprehensive range of products that not only provide effective cleaning of endoscopes, but also physical barriers to prevent accidental cross contamination. Intuitive, user-friendly operation and pre-programmed cycles reduce the risk of user error.

With Getinge, you can enable consistent workflow, high-quality results, and traceable processes. Your patients deserve a clean and disinfected scope every time. Trust Getinge to help you meet your endoscope reprocessing needs.



# Endoscope cleaning

## The first step in endoscope reprocessing

The first step in the protocol for reprocessing any flexible endoscope begins with pre-cleaning in the procedure room or at the bedside.

Pre-cleaning facilitates the removal of readily detachable organic matter. This helps to reduce the possibility of drying and causing channel blockages, especially if there is a delay before the manual cleaning takes place.

### Simplifying manual sink-cleaning

The CSD DoseTech is a simple, easy-to-use dosing system that delivers precise amounts of detergent into the sink, eliminating the variability of bottle mounted pumps. It includes built-in programmable settings, allowing users to set dosing parameters that will meet specific conditions for removing soil at various sink levels for achieving optimum cleaning results.



### Endoscope compatibility with Getinge Manual Pro +

Our Getinge Manual Pro + detergent can be used to help optimise your manual cleaning performance. Suitable for use on water resistant surfaces such as endoscopes, stainless steel, ceramics, glass, plastics and soft metals. With four enzyme types and a balanced surfactant package, the product removes soil from instruments and devices and exhibits biofilm removal properties.





# Getinge Wash Stations

## Fixed or height adjustable configurations

### Getinge wash stations

Stainless steel sink units well-suited for most kind of reprocessing departments such as CSSDs, TSSUs as well as healthcare centres and smaller clinics where a heavy-duty workplace is required. These sink/worktop units are designed for heavy duty work, such as sorting, manual washing and preparation, particularly with wet goods. The robust stainless steel worktop has raised edges all around to contain water splashes.

### Height adjustable wash stations

Our height adjustable wash stations are custom designed to your requirements. If you require length ways or L-shape designed sinks, single, double or triple basins, we can tailor the design to your CSSD's needs and throughput demands. The height adjustable feature works to ensure your team are working in an ergonomic environment. The wash stations are made from stainless steel and come equipped with all required accessories.



### CSSD Redevelopment Project

These images are height adjustable sinks from a new CSSD in a public hospital as part of a large redevelopment project. The spacious and purpose built department is equipped with Getinge equipment flowing from the decontamination area, the clean area to the sterile area.

The new department has one ED-FLOW Pass-Through and one EDS8 with the capacity to have another ED-FLOW Pass-Through installed into the wall should the demand to reprocess endoscopes increase.

# Fast and efficient cycles

## Process scopes in only 23 minutes

Getinge ED-Flow and ED-Flow Single Door are designed to improve the workflow in your endoscopy department.

Getinge offers two models of automated endoscope reprocessors which efficiently perform leak testing, cleaning, and high-level disinfection of flexible endoscopes, delivering effective, reliable results.

### Getinge ED-Flow AER – Pass-through

The Getinge ED-Flow AER is a true physical barrier system designed to separate the dirty and clean areas. It is the perfect solution for larger endoscopy departments that have 10 endoscopes or more with excellent throughput due to its two separate chambers and short cycles. Interlocked doors mean that only scopes that have run through a complete and approved cycle can be unloaded from the clean side. If an error occurs during the process, the ED-Flow will only open on the dirty side.



### Getinge ED-Flow SD AER – Single Door

Productivity in the endoscopy reprocessing area is key. The Getinge ED-Flow SD AER is designed to provide high productivity in an existing room or a smaller facility with a single zone design. It offers high throughput due to its two separate chambers and short cycles. For even higher productivity you can install several units in a row.



Scan or click the QR code with your mobile to view your department.



#### Process indicator lights

Coloured LEDs allow operators to easily view from across the room when the process has been successfully completed (green) or provide a visual alert in case of alarm (red).

#### Complete visibility

Glass paneling provides visibility and allows communication across the entire department.

#### Optimum traceability

RFID technology allows for easy documentation of the endoscope, operator, and cycle data. Software is available from Getinge to help manage all the data.

#### Single direction workflow

The pass-through design allows for a true physical barrier between soiled and clean sides. Each chamber has two doors, one for loading and the other for unloading the endoscopes.

#### Two asynchronous chambers

The two chambers of the ED-Flow allow processing of two endoscopes at the same time – for faster and a more efficient flow of flexible endoscopes.

#### Unique handling of chemicals

The Aperlan Agent A and Agent B disinfectant containers are uniquely shaped to ensure correct placement. The perforating disinfectant delivery system prevents operator exposure.

#### Hands-free operation

Open/close the doors and start the cycle using the foot pedal. The RFID technology will automatically identify scope model and serial number to ensure the correct program is always selected.

»Throughout all phases of the cycle, you can view the ED-FLOW chamber allowing for a smooth and simple workflow which makes it easier to monitor the endoscope cycle.«



The Getinge ED-Flow uses two different disinfection methods: thermal self-disinfection for the chamber and chemical disinfection for your endoscopes as per EN ISO 15883-4.

# User friendly, hands-free operation

## Simply productive

When the operator has loaded the endoscope into the AER, its RFID tag is automatically identified by the machine and the correct program is selected for that endoscope. The operator then must scan their RFID badge and press the foot pedal to start the process.

### No touch required

The operator does not have to touch any panel or button when loading or unloading endoscopes. This helps to minimise the risk of cross-contamination and simplify the process.

### Automated data capture

The ED-Flow cannot be started or unloaded without recording the correct user and endoscope information. This data is then automatically documented in the process record for traceability.

### Truly connected

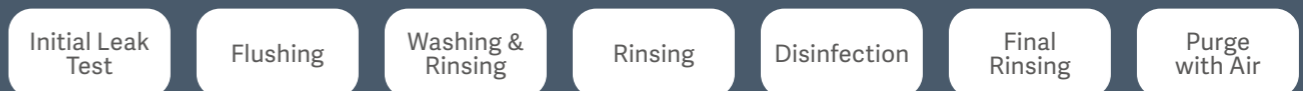
Getinge Online allows real-time and historic performance overview of your ED-Flow to enable faster reaction to department challenges and overall enhanced productivity.

### Programmable thermal self-disinfection program

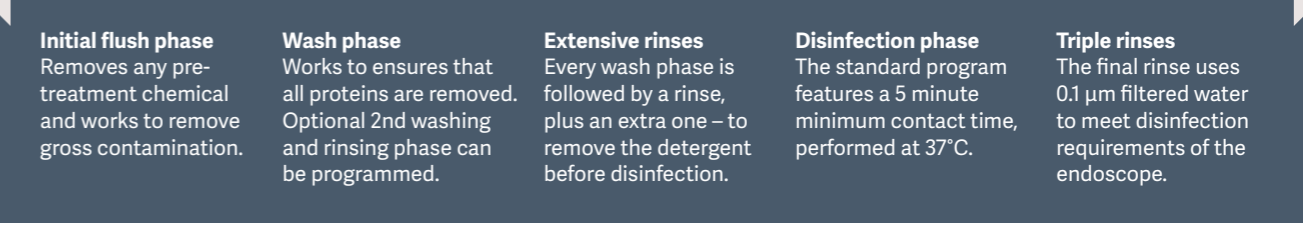
The self-disinfection program can be pre-scheduled for automatic start so that the ED-Flow is ready for use, for example in the morning when you arrive. This helps to maximise efficiency and reduces the risk of cross-contamination.

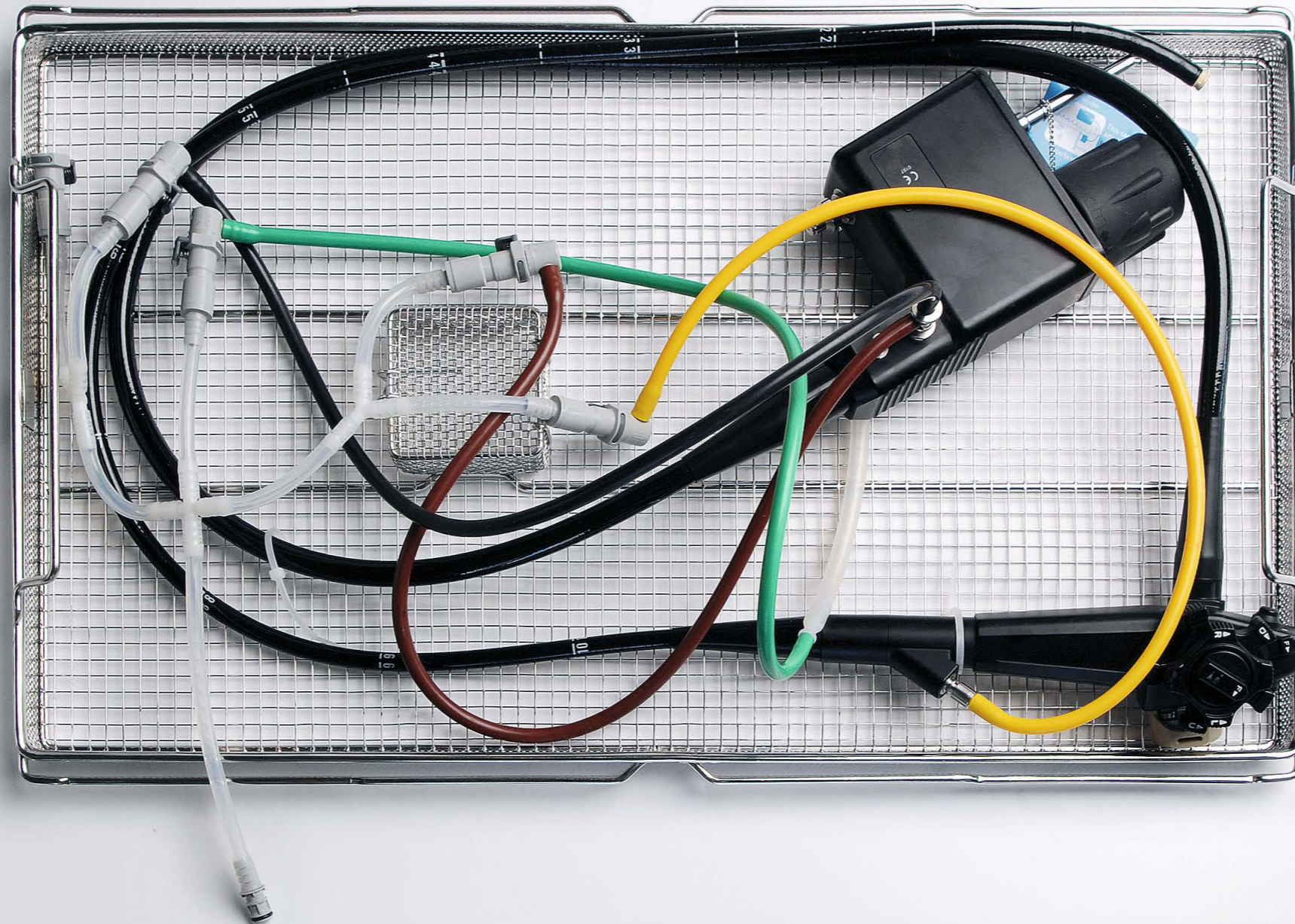


### Standard Cycle Profile



### Channel Patency/ Channel Irrigation Tests





## Gain access to our online connector database

### Extensive testing of different endoscopes

The ED-FLOW is designed to provide full compatibility and efficacy with your endoscopes. Each ED-FLOW is developed for and extensively tested with most endoscope manufacturers and models. Our always growing database features over 5700 approved endoscope models. The database is a direct access to all the connection kits and endoscopes families that you can reprocess in your ED-FLOW.

### Facilitating the connection of endoscopes

The ED-FLOW LED display features endoscope schematics allowing easy identification of required connectors unique to the endoscope. Each tube has a different colour to guide the operator to the correct internal channel. Every endoscope channel is individually connected to one of the six available snap-on connections, in order to clean and disinfect the internal channels of the endoscope.

### Getinge's connection kits

Our connection kits are included in the Australian Register of Therapeutic Goods (ARTG) as a Class I device. They have been developed so you can connect to endoscopes from major manufacturers.

»The ED-FLOW is designed to provide full compatibility and efficacy with your endoscopes.«



# A smarter way to handle detergents

Designed to reduce contact with chemistry

## ED-Flow chemistry

ED-Flow requires DLC detergent and Aperlan Agents A and B to achieve effective cleaning and high level disinfection. The results are proven to comply with the latest ISO 15883 standards and are compatible with the endoscopes from all the major manufacturers.

- **Biofilm removal detergent:** Getinge DLC alkaline detergent has well documented efficacy for protein and biofilm removal.<sup>1</sup> The 3L containers last for 60 cycles.
- **Aperlan for disinfection efficacy:** The single use disinfectant is a peracetic acid-based chemical delivered in two separate 5 kg containers – A and B. The two agents are mixed directly inside the machine and last for approximately 85 cycles.
- **Warning when container levels are low:** The level of detergent and disinfectant is constantly monitored by the control system and can be displayed on the operator screen. The system warns if levels are low, preventing chemicals from running out during a cycle.
- **The containers do not have to be opened:** The bottles of Aperlan A and B are pierced inside the ED-Flow mitigating operator exposure to the chemicals.
- **Error proof chemical replacement:** The containers are uniquely shaped to ensure correct chemical placement.





# Complete endoscope traceability

## Take control of your endoscope handling and utilisation

T-DOC EndoTrace tracks all unique endoscope processes for regulatory compliance and quality management



T-DOC EndoTrace supports you in enabling the correct endoscope handling, regulatory compliance, and quality management of your scope fleet. Complete traceability is enabled as T-DOC registers endoscopes and button valves throughout their lifespan and links them to all processes, actions and people they encounter.

T-DOC EndoTrace supports the user in the complex endoscope handling with detailed media-supported instructions in the user-friendly interface. The T-DOC drying cabinet info overview helps manage location and expiry time of endoscopes. In addition, you always know where your endoscopes are when you need them.

### Document all endoscope disinfection processes

Combine T-DOC EndoTrace with T-DOC Endo Data Logging for data capturing of cycle phases, time, temperature, endoscope RFID tag, user ID, machine and program type and detergent / disinfectant exposure.

If a cycle error occurs, T-DOC alerts staff before continuing the verification process. The patient and / or doctor can be linked to the endoscope for full documentation in the unlikely event of a recall.

T-DOC can be interfaced with Getinge Automated Endoscope Reprocessors and Getinge Drying and Storage Cabinets.

### Getinge's hospital efficiency solutions

T-DOC is part of Getinge's suite of hospital efficiency solutions which support cross-hospital workflows centered around your CSSD and OR. Our software solutions enable you to capture value and save cost through streamlined processes and increased resource utilisation, helping you deliver the best possible care for patients.

### Getinge's hospital efficiency solutions consist of:

- Torin OR Management
- Tegrin OR Integration
- T-DOC Sterile Supply Management
- INSIGHT Patient Flow Management

# Getinge EDS8

Endoscopes are ready when you are

- + **Store eight endoscopes for up to 60 days**  
Proven independently to dry and maintain microbial integrity in accordance with EN 16442<sup>2</sup>
- + **Continuous air circulation**  
HEPA filtered air continually circulates through the internal channels of endoscopes and over their exterior surface.
- + **Active monitoring of storage conditions**  
The alarm function ensures adequate airflow and the correct environmental conditions are maintained for each individual endoscope.
- + **Horizontal shelving**  
Horizontal shelves prevent cross-contamination between endoscopes and from users accessing the cabinet.
- + **Integral traceability of drying and storage function**  
The RFID scanner enables the entry of endoscope ID and operator ID for automatic recording and documentation purposes.
- + **Protects against endoscope damage**  
Common basket with AER and hands-free door actuation minimises handling of the endoscope
- + **Efficient management of endoscope inventory**  
The user-friendly display provides the name, status and location of all the endoscopes in the cabinet. Prepared for connection to T-DOC EndoTrace and T-DOC 2000 systems, which allow for the management of all endoscopes within the facility.



# Sterilization of endoscopes

Improving patient outcomes through better practice in infection control



## Sterilization for higher margin of safety

Getinge is constantly seeking new processes that improve patient outcomes and overall efficiency. Routine practices are being challenged by new research, and by growing recognition of concerns of infection from flexible endoscopes.

Sterilization provides a higher margin of reprocessing assurance and safety while eliminating all microbial life, including bacterial endospores.

GSS67F is routinely employed to sterilize endoscopes in CSSDs and endoscopy centers worldwide.

## Getinge GSS67F

A combination of steam and formaldehyde sterilizers allows great flexibility at a reduced footprint. It delivers high unit efficiency with fast turnaround compared with traditional formaldehyde sterilizers.

### Features and benefits

- Fast sterilization cycles compared with traditional formaldehyde sterilizers.
- Two sterilization methods in one product reduces your CSSD footprint.
- Intuitive Centric User-Interface ensures easy operation.
- Increase load capacity with a larger chamber volume and sliding door design.
- Developed and tested in accordance with EN 14180.
- Complete closed system for user safety.
- Allows connection to Getinge online for enhanced uptime.
- Great material compatibility\* with longer complex multi-channel flexible scopes.



\*Check with the Instrument/Endoscope manufacturer for material compatibility.



## Unlocking your department's full capacity with ED-FLOWS

Our team can create a layout that best suits you. We can show you how you may be able to increase your department's reprocessing capacity.

### Increase your reprocessing throughput

A large public hospital in the UK have installed six ED-Flow's which allow them to easily meet the demand of reprocessing 150 scopes a day. The hospital underwent redevelopment in 2014 and now have five fully commissioned endoscopy procedure rooms for both elective and emergency cases. The large capacity of their reprocessing facility means that the hospital is able to manage their endoscope fleet with the flexibility to meet increasing demand.

### Improve your traceability processes

The site's new endoscopy department is equipped with T-DOC Endotrace, Getinge's T-DOC tracking and traceability system. The system is designed to work seamlessly with the ED-Flow AERs as it's built-in as standard. This enables the team to maintain a complete overview of the status and location of their endoscopes. They replaced their paper-based traceability system with a complete digital solution and the team were impressed with the system's efficiency and accuracy.



Scan or click the QR code to view a custom-designed department.

## Getinge Endoscopy Transport Trolleys

For secure transport of your endoscopes

Whether you need to transport your endoscopes across the hospital or to an off-site reprocessing facility, Getinge can offer a solution that helps to protect your endoscopes from damage during transport.

### Facilitating the transport of endoscopes

We understand the importance of securely transporting your endoscopes from the reprocessing department to the operating room. Getinge can provide you with a solution. The door to the transport trolley can be locked to reduce the risk of cross-contamination and helps to monitor staff access to the endoscopes.

### Designed with security in mind

The trolley is made from 316 stainless steel and has 5 shelves (including the base) to transport endoscopes. Each shelf is separated by 125mm gap, designed to fit one endoscope and one ED-FLOW/EDS8 tray. The trolley is equipped with push handles on both sides and is ergonomically designed to keep your hands inside the foot print of the trolley to prevent injury.



# Getinge WPT

## With EDI (electrodeionisation)

### Small footprint

A freestanding cabinet with a built-in system and no visible tubing or instruments. Getinge WPT takes up less floor space compared to other WPT-systems.

### Protects your investments

Designed to maintain the life span of your sterilizers and washer-disinfectors as well as for your endoscopy units. Reduces the risk for pitting and other damage on the instruments you reprocess.

### All In One

Pre-tested with pre-installed components, integrated buffer tank and distribution pump. No time-consuming installation.

### Two models available

To accommodate various needs and different types of municipal water supply, Getinge WPT is available in two standard models.

### Complies to branch standards

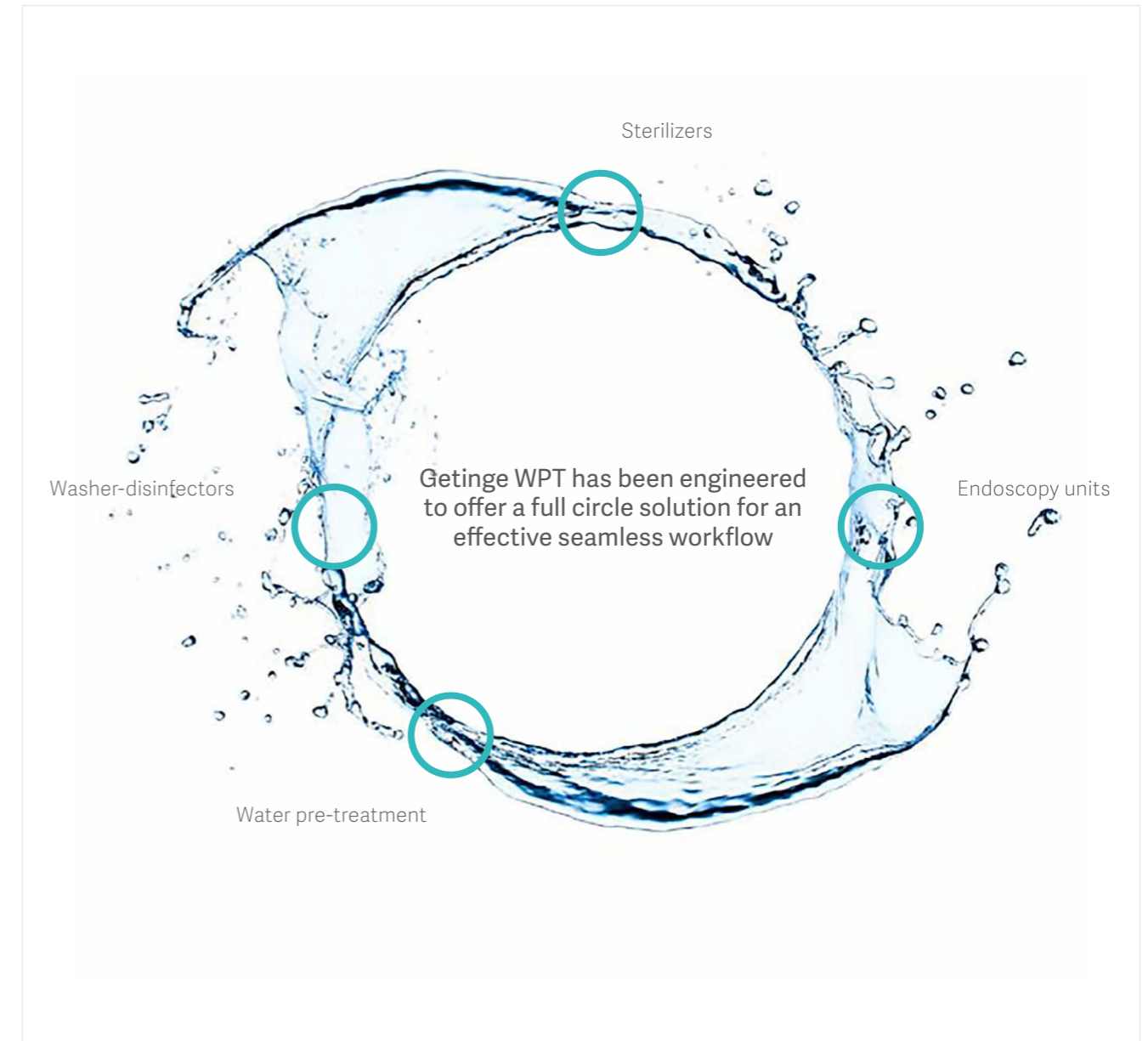
Getinge WPT meets both NE/IEC 61010-1:2010 and EN 61000-6-3:2007+A1-EMC.

### Always connected

Managed from a 7" LCD colour touchscreen, Getinge WPT has a dedicated control system that keeps you connected to the present status and all water treatment functions. Parameters controlled and monitored include conductivity values of incoming and distribution water, flows, tank level, status of filters, level of salt and more. Every data recorded is logged and can be copied to an external USB stick.

### Many different uses

Getinge WPT is used to produce water to washer-disinfectors, sterilizers and endoscopy units.



### Full Circle Solution

Getinge WPT offers clean water of the right quality for washer-disinfectors and steam sterilizers. Its compact size makes it easy to install.

Since it is factory pre-tested and designed as an all-in-one unit you can easily connect Getinge WPT to your municipal tap water. Getinge WPT is based on Reverse

Osmosis, with pre-treatment based on carbon, micro filtration, UV-light and hardness stabiliser techniques.

The unit is equipped with a 7" LCD touchscreen that makes it easy for the user to monitor and operate the process and cycle phases.

# Getinge Endoscopy Consumables & Accessories

For use in your department



## Getinge Clean Pre Treatment Foam Spray

The Getinge Clean Pre Treatment Foam Spray is available in 500mL hand held dispensers. It is used principally for spraying stainless steel instruments and other utensils after usage and before being transferred to the endoscopy department. It prevents drying of soiled surfaces before cleaning.



## Getinge Assured Endoscope Protein Tests

The Getinge Assured Protein Tests are used to detect residual protein in hollow lumen surgical instruments. The protein test can detect protein residuals to 1 µg sensitivity within 10 seconds. This test provides a semiquantitative measure of surface cleanliness; the higher the level of contamination of protein (bioburden), the darker and faster the colour changes to blue.

**Ask your local representative for more information on our endoscopy consumables & accessories.**

# Ongoing support and service

Getinge has a long and proud history of designing and developing medtech equipment. In line with our quality and operability of our equipment we also support our customers by providing support through our service department.

Our trained Field Service Engineers are available to ensure your equipment is maintained to maximum availability and longevity from your investment.

We believe in the philosophy of partnering with our customers to understand your operating needs and requirements. This allows us to support you doing important things like caring for your patients.

With our Getinge Care service we are able to tailor service support to meet your environment and operating constraints. Our Field Service Engineers have extensive experience in the medical field and are able to work in with your caseloads, facility standard operating procedures and environmental constraints.

To ensure you are able to meet the needs of your patients we are also able to provide biomedical training to your internal biomedical engineers to have the ability to maintain your equipment independently and escalate when further support is needed.



## Preventative

Partner Preventative Maintenance labour from a product specific service schedule: the intention of Preventative Maintenance is to help avoid unexpected expenses by identifying problems before they become actual or critical.



## Premium

The Premium package gives you financial control over your investment. This package includes all Preventative Maintenance parts and labour as well as all Corrective Maintenance parts and labour. Our premium package helps to reduce your administrative costs by removing the need for incremental purchase orders.



# Installation and training

Our endoscopy range is designed to be easy to install and service. We also provide you and your team with technical and operational training post installation.



## Validation testing offering

We carry out validation testing of your equipment aligned to AS5369:2023 and the EN ISO 15883-4 standards. This includes Installation Qualification (IQ), Operational Qualification (OQ) and Performance Qualification (PQ) and performance requalification (performed according to EN ISO 15883-4 for the ED-FLOW, EN 16442 for the EDS8 and EN 14180 for GSS67F LTSF cycles and ISO17665-1 & ISO TS 17665-2 for high temperature cycles.)



## We provide you with equipment that is manufactured according to these standards:

### ED-FLOW

- EN ISO 15883-1, EN ISO 15883-4

### EDS8

- EN 16442

### GSS67F

- EN 14180 for the LTSF cycles, EN 285 for the high temperature cycles.



## Clinical and operator training

Getinge Academy endoscopy portfolio training ranges from basic operator training to super user training and assessment. We facilitate hands on practice and troubleshooting in a peer supported learning environment with a Getinge Clinical Application specialist.

In April 2020, Getinge Academy conducted its first virtual training event that was well-received by all participants. This is now a training module that is available to all customers.

## Operator Training for Getinge ED Flow and EDS8 includes:

- Equipment functioning overview
- Isolation during an emergency
- Alarms and troubleshooting
- Maintenance Routines
- Instructions for use/SDS understanding
- Chemical handling and management

## References

<sup>1</sup> Richard, M. 2009. 'Evaluation of the efficacy of the cleaning stage of the standard cycle of an endoscope washer-disinfector according to ISO 158834:2008 Clauses 4.3.5 and 6.11.3 - Getinge ED Flow AER' Biotech-Germande

<sup>2</sup> Ah-Dip, C. 2015. 'Compliance certificate of a drying and storage cabinet for thermolabile endoscopes to EN 16442:2015 - EDS8 Getinge-Lancer' Biotech-Germande



With a firm belief that every person and community should have access to the best possible care, Getinge provides hospitals and life science institutions with products and solutions aiming to improve clinical results and optimise workflows. The offering includes products and solutions for intensive care, cardiovascular procedures, operating rooms, sterile reprocessing and life science. Getinge employs over 10,700 people worldwide and the products are sold in more than 130 countries.

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