

## GETINGE HS66 TURBO SUPERIOR STERILIZATION



Always with you

## LIGHTS ON FOR THE NEW GENERATION STERILIZERS

The new Getinge HS66 Turbo is one of the new breed of state-of-the-art sterilizers from the world's leading brand in infection control. Sterilizers that further perfect the efficient performance and superior throughput you can always expect from Getinge. You recognize them by their clear, light and characteristic touch-screen panels, easily readable from a distance. As well as by their thought-through and user-friendly design, making them easier to operate than ever.



### **Ergonomic and user-friendly**

The clear and intuitive interface of the new touch-screen panels is only one of many examples of how we ensure that Getinge sterilizers are easier to operate and more ergonomic. Read more about the new touch-screens on page 6.



### **Getinge's Turbo concept – a revolution in efficiency**

With our innovative Turbo concept, we have succeeded to shorten the process times dramatically. Getinge HS66 Turbo speeds up the process, which increases throughput while also saving energy.







## OUR FOCUS IS YOUR NEEDS

There is a simple reason why Getinge is the world leader in sterilization and disinfection: we know our customers' everyday reality. And when we develop products, our focus is on your needs.

### **Innovative Solutions**

This approach, highly appreciated by our customers, often leads us into new territory, e.g. when we developed the new Getinge HS66 Turbo sterilizer. Here, the question "How can we further reduce our customers' total costs?" led us to a unique concept with innovative technology and several new solutions.

### **Reduces sterilization process time by up to 35%**

The Getinge HS66 Turbo is a compact and versatile sterilizer that complies with the very toughest demands on efficacy, efficiency and user-friendliness.

Like other Getinge sterilizers, it combines high capacity with cost efficiency, while offering high operating reliability and easy maintenance. But this machine is also much faster. The new Getinge HS66 Turbo reduces sterilization cycle times by up to 35% depending on load configuration.

The benefits are obvious. You get higher throughput and can cut turnaround times as well as total costs – strong benefits that will favorably impact your bottom line!

### **The Getinge HS66 Turbo offers:**

- Short process time
- Well-tested sterilization process
- Compliance with the world's toughest standards
- Outstanding flexibility and operating simplicity
- Superior capacity-to-space ratio



## THE FASTER STERILIZER

The Getinge HS66 Turbo is unique in terms of its ability to offer superior sterilization in a shorter period of time. At the same time, it is a safe choice and a top-quality product which is easy both to install and to service. What's more, it can save up to 90 % of your water consumption!



### **New generation touch screens**

Getinge HS66 Turbo features our new generation of user-friendly touch screens with high resolution. The screens offer optimal ergonomics, with a clear overview from all angles in the control area. The user interface and menu are intuitive, the text is remarkably distinct and the graphics are vivid.



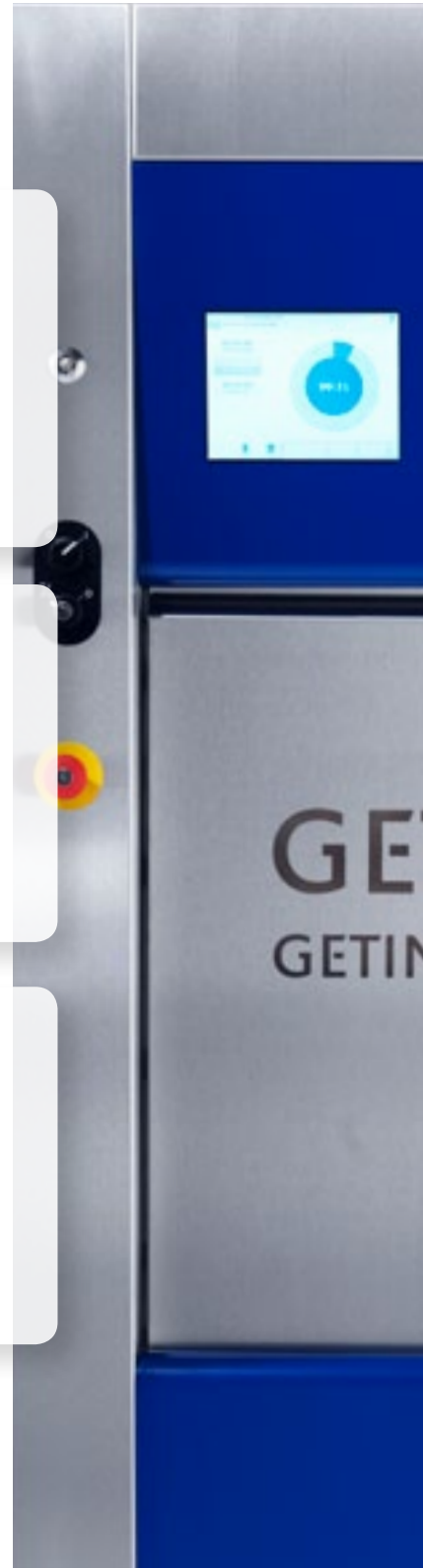
### **Top quality**

The acid-proof stainless steel chambers and steam jackets are robot-welded and enclosed in corrosion-proof aluminum to help assure long and trouble-free operation.



### **Space-saving construction**

The vertically downward sliding door is faster and saves space, while offering proven, hands-free convenience.



**Minimized water consumption**

Our standard ECO-system goes a step further, drastically reducing water requirements to the vacuum pump and separating waste-water from recyclable cooling water. The total water consumption can be as much as 90 % lower than other standard sterilizers on the market, an important environmental consideration that combines economy with ecology.

**Easy installation**

In spite of its generous capacity, the sterilizer is compact enough to fit through a 900 mm wide door. This saves time and money in installation.

**Easy access for service**

In spite of the very compact modular design, all components are easily accessible for maintenance from one side and from the hinged front, which opens completely.

**Outstanding flexibility and operating simplicity**

The sterilizer is equipped with the PACS 3500 PLC that meets tough FDA requirements and is specially developed for Getinge sterilizers and washer-disinfectors. It is designed to handle just about any process you can imagine in this field – with consistently superior results. The automatic diagnosis of faults means faster service and lower costs.

**Clean steam**

Our optional integrated steam generators (electrical or steam-heated) improve steam quality and prevent the usual problems with wet packs and dirt on packs/instruments created by poor plant steam quality. The steam generator is integrated under the sterilizer and requires no extra space. The only requirement is that the steam generator is supplied with treated water for steam generation. The better water quality you supply, the better steam you get.

**Short process time**

The sterilization cycle in the new Getinge HS66 Turbo is optimized for short process time, but easily meets the requirements of EN285:2006 + A2:2009.





## DESIGNED WITH ENVIRONMENTAL ASPECTS IN MIND

At Getinge, we are committed to contribute to a sustainable society. We work purposefully to optimize our use of energy and natural resources, minimize our emissions to air and reduce the environmental impact of our waste management.

The environmental engagement of Getinge does not cease with product delivery, but includes the complete product life cycle. To gain maximum eco-effectiveness, we consider the environmental aspects of the entire life cycle, including stages such as product development, operational factory administration, production processes, distribution, intended use of the product and, finally, scrapping of the product.

### **Main focus: energy efficiency**

Our overriding environmental objective is optimizing energy consumption and thus reducing the impact on the climate. The Getinge HS66 Turbo is an example of how we use smart technological solutions to keep energy consumption low.

Thanks to Getinge's Turbo concept, the process times have been reduced by up to 35 %. This means that sterilization of the goods will require less energy consumption.

### **Reduced water consumption**

Our included ECO system goes a step further, drastically reducing water requirements to the vacuum pump and separating waste-water from recyclable cooling water. The total water consumption is as much as 90 % lower than other standard sterilizers on the market, an important environmental consideration that combines economy with ecology.

## PACS 3500

### HIGH PRECISION, YET SO SIMPLE

The advanced PACS 3500 PLC meets FDA requirements and is specially developed for Getinge sterilizers and washer-disinfectors. It is designed to handle just about any operation you can imagine in this field – with consistently superior results. The automatic diagnosis of faults means faster service and lower costs.

#### **Assured accuracy**

The PACS 3500 PLC is an extremely user-friendly control unit that assures reliably accurate sterilization programs. There are no high-temperature peaks that waste energy, destroy goods or cause superheated steam that could jeopardize the sterilization. In the event of a temperature drop, an alarm is triggered. Simply put, it's a control system you can rely on.

#### **Programs**

PACS 3500 can be equipped with a variety of programs, offering the flexibility of a full range of cycle combinations to satisfy just about every demand. All of these five programs are pre-programmed for instant selection:

- High vacuum for textiles and utensils 121°C
- High vacuum for textiles and utensils 134°C
- Flash
- Bowie Dick test
- Automatic leak test

The following additional programs are available as options:

- High vacuum for heavy load 134°C
- Prion. (High vacuum 134°C cycle, to be configured in accordance with local requirements)
- Optical instruments
- Silicone implants
- High vacuum for textiles and utensils 121°C (air detector surveillance)
- High vacuum for textiles and utensils 134°C (air detector surveillance)

#### **Double safety**

To assure operator safety, we've developed a unique, self-diagnostic, double-control door

interlocking system. Both parts consist of independent controls that monitor each other, eliminating the risk of functional failure.

#### **Automatic adjustable pressure calibration**

Getinge has also developed a special pressure transducer to assure accurate reproducibility of the sterilization process in spite of ambient pressure fluctuations.

#### **User-friendly displays**

The user-friendly PACS 3500 control unit offers a number of convenient features:

- Operator codes for non-validated programs
- Password-protected menu tree
- Fault and information alarms
- Notification of service and maintenance intervals
- Concise and easy-to-grasp information, available in a selection of languages.

#### **Supervisor**

The included PACS Supervisor gives you supervision of the sterilization and the sterilizer safety system. The PACS Supervisor is a completely independent monitoring and documentation system that constantly reviews readings from the PACS 3500 and compares them with its own independent sensors. The PACS Supervisor cross-checks the sterilization period of the MDD type-tested cycles according to the limit values of EN285 and triggers an alarm if the limits are not achieved.

The PACS Supervisor prints out all process data on one printer from both the PACS 3500 and its own independent values, either as data/text or as a graph. It is also capable of sending all values to T-DOC – Getinge's external system for electronic recording and documentation.

# CUSTOMIZE YOUR HS66 TURBO STERILIZER

## Loading-side panels



### AVANTI

8.4" SVGA color display with high brightness.  
Wide viewing angle.  
Built-in long life LED's.

info:

- Remaining time
- Cycle & Phase
- Temperature(s)

Graphical Process Presentation:

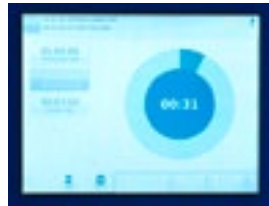
- Plot graph
- Bar graph

Parameter settings.

Maintenance & service menus.

System Configuration.

Start and Cycle Selection



### SUPERIOR (option)

12.1" TFT-display  
Wide viewing angle.  
Fast response time.  
High colour saturation.  
Built-in long life LED's.

info:

- Remaining time
- Cycle & Phase
- Temperature(s)

Graphical Process Presentation:

- Plot graph
- Bar graph

Parameter settings.

Maintenance & service menus.

System Configuration.

Start and Cycle Selection

## Unloading-side panels



### CLASSIC

4.2" graphical LCD display  
Door open/close buttons  
Status LED's



### AVANTI (option)

8.4" SVGA color display with high brightness.  
Wide viewing angle.  
Built-in long life LED's.

info:

- Remaining time
- Cycle & Phase
- Temperature(s)

Graphical Process Presentation:

- Plot graph
- Bar graph

Parameter settings.

Maintenance & service menus.

System Configuration.

Start and Cycle Selection



## A LOADING SYSTEM FOR EVERY NEED



Getinge SMART is a range of ergonomic loading equipment that has been designed down to the smallest detail to make everyday work more efficient and easier for the user. The range of Getinge SMART loading equipment includes loading trolleys with fixed or adjustable height, that can be equipped with Semi-Automatic Loading and/or PowerDrive for easier handling. All units are perfectly adapted to standardized wire basket and container systems.

As a complete solution provider, Getinge offers a complete, efficient, economical, ergonomical handling systems for baskets as well as containers. The systems may be used separately or in combination. And both systems are available with manual or automatic loading and unloading. This means that your system can be tailored precisely to your needs. A selection of our range is:



1



2



3



4

1. Manual loading/unloading of wire baskets. Also using optional loading module(s) to process containers.
2. Manual loading/unloading of shelf rack. The shelf rack can also be loaded with wire baskets or other goods.
3. Manual loading of containers or various packs using a loading platform and loading module on a loading trolley
4. Automatic loading/unloading of wire baskets. These units can also handle loading module(s) to process containers. Is used in combination with a loading trolley that transfers the goods to/from the unit.



## AUTOMATED LOADING & UNLOADING

Automation is a question of both ergonomics and economics. Ergonomically speaking, every lift that is done automatically means a reduction in muscle and joint strain on personnel. Economically speaking, automation obviously means that fewer employees will miss work due to injury. But it can also increase the availability of sterile goods and the sterilizers themselves. The extra investment in an automated system often brings significant benefits, such as:

- increased availability, so you don't need to invest in extra sets of instruments and other goods
- time- and labor-saving
- optimized sterilizer capacity utilization
- opportunities for easy documentation and traceability
- elimination of human error

Getinge's experience in automation and ergonomics is extensive and unique. Moreover, we devote considerable resources to developing customer-specific solutions.



### Air Glide System (AGS)

The Getinge AGS for sterilizers is a completely automatic loading and unloading system for your large sterile processing department or CSSD. You simply leave the goods at a loading point on the clean side and pick them up at an unloading point on the sterile side. The system handles all loading, program selection and unloading automatically.



### Automatic loading/unloading

Space- and labor-saving, in-line automatic loading units that start a pre-set sterilization program for a particular load. The unit also serves as temporary pre-storage in front of the sterilizer, to collect full loads. When the sterilizer is ready for a new process, the collected full load is automatically transferred into the sterilizer chamber, the sterilizer door is closed and the preset sterilization process starts.

## ALL EQUIPMENT YOU NEED – AND EVERYTHING ELSE TOO



### **Architectural planning:**

Getinge provides you with planning and design of your facility, for optimal workflow with expertise in infection control.



### **Equipment:**

A complete range of washer-disinfectors, sterilizers, loading equipment and system accessories will together provide a total solution for different types of applications.



### **Service and support:**

Getinge's own service teams constitute complete installation service, technical support and preventive maintenance for maximum uptime. Worldwide network with technicians.



### **Consumables:**

We offer a complete and comprehensive range of consumables, which in combination with our application specialists provide efficient and economical output.



### **Education:**

Getinge Academy provides service training, application training, and technician training upon customer demand, held either at one of the Getinge Academy facilities or at customer sites.



### **Traceability:**

Getinge's T-DOC software is a highly sophisticated and user-friendly documentation system, offering full instrument traceability and asset management for the healthcare sector.

## TECHNICAL FEATURES

GETINGE STERILIZER MODEL				
	Units	HS6610	HS6613	HS6617
Chamber volume 1	L/cu. ft	461/16.3	595/21	775/27.3
Chamber volume 2	L/cu. ft	449/15.8	584/20.6	764/27
Chamber depth	mm/in.	1000/39.4	1300/51.1	1700/67
Chamber width	mm/in.	672/26.5	672/26.5	672/26.5
Chamber height	mm/in.	672/26.5	672/26.5	672/26.5
Capacity baskets*	pcs	6	9	12
Capacity STU**	pcs	6	8	10

Chamber volume 1: Single-door versions. Chamber volume 2: Double-door versions.

\* Basket size (SPRI/ISO): 585x395x195/600x400x200 mm (LxWxH)

\*\* STU size : 600x300x300 mm (LxWxH)

**The Getinge HS66 Turbo sterilizer is designed to comply with the following requirements and standards:**

Medical Device Directive	93/42/EEC as amended by directive 2007/47/EC
Machinery Directive	2006/42/EC
Low Voltage Directive	2006/95/EC
EMC Directive	2004/108/EC
Pressure Equipment Directive	97/23/EC
Safety: Particular requirements for steam sterilizers treating medical materials or in laboratory use.	IEC 61010-2-040:2005
Sterilization – Steam sterilizers – Large sterilizers	EN285:2006 + A2:2009
Quality Management System Requirements	EN - ISO 9001:2008
Medical Devices – Quality management systems – Requirements for regulatory purposes	ISO 13485:2003
Environmental Management Systems – Requirements with guidance for use	ISO 14001:2004



#### COMPLETE SOLUTIONS FOR INFECTION CONTROL

Getinge is the world's leading provider of solutions for effective cleaning, disinfection and sterilization in the healthcare and life science sectors. We are dedicated to helping our customers provide better care at a lower cost. We do this by offering well thought through and customized solutions. This means that we are with our customers all the way from architectural planning and education to traceability and support – with complete solutions, long-term commitment and global presence. Getinge – Always with you.

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# GETINGE

GETINGE GROUP

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GETINGE GROUP is a leading global provider of products and systems that contribute to quality enhancement and cost efficiency within healthcare and life sciences. We operate under the three brands of ArjoHuntleigh, GETINGE and MAQUET. **ArjoHuntleigh** focuses on patient mobility and wound management solutions. **GETINGE** provides solutions for infection control within healthcare and contamination prevention within life sciences. **MAQUET** specializes in solutions, therapies and products for surgical interventions and intensive care.