

# GETINGE

## GETINGE HS44 STERILIZERS FOR HIGH CAPACITY AT POINT OF USE



# BIG PERFORMANCE IN A SMALL FOOTPRINT

Getinge is the world's leading supplier of sterilization equipment. Our state-of-the-art Getinge HS66 sterilizer is known worldwide for its high performance and reliability, excellent ergonomics and cost-efficiency.

We now bring you all of this in a smaller footprint: the Getinge HS44 – the perfect sterilizer for point-of-use applications, e.g. surgical departments and other healthcare facilities.

## Compact capacity

The new Getinge HS44 effectively sterilizes all kinds of goods for general-purpose hospital use, e.g. surgical instruments, textiles and hospital utensils. It's available in two chamber sizes, both with a small footprint that allow it to be placed close to the point of use. Yet it can handle up to 1.5 STU baskets or 2 high SPRI baskets.

## Easy installation, minimum service

The only connections required are electricity and water, i.e. the Getinge HS44 can even be installed where compressed air is not available. And thanks to its compact size, only a limited amount of space is required.

Service time and spare parts requirements for the Getinge HS44 sterilizer have been trimmed to an absolute minimum, primarily because:

- there are few components;
- the sterilizer uses proprietary PACS 3000 software;
- the heating elements are never in contact with water, so lifetime is virtually unlimited;
- the steam generator is maintenance-free;
- all incoming media pipes are in stainless steel;
- normal service is from the front or top
- built-in reverse osmosis

## Simple & cost-effective

Operation is based on five programs plus options (see box). Just select a program, close the door and push the start button. It couldn't be simpler!

And the Getinge HS44 is economical, thanks to efficient use of utilities, low maintenance requirements and high throughput – all with minimum floor space requirements.

Moreover, its silent operation makes for a good working environment.

### 5 PROGRAMS + OPTIONS

- Porous load program: 134°C
- Porous load program: 121°C
- Flash program: 134°C
- Bowie & Dick test program
- Automatic Leak test program

### OPTIONAL PROGRAMS

- Prion program: 134°C
- Lab program for open liquids including load sensor

**Process documentation**

Built-in recorder with independent pressure and temperature sensors.

**Touch-control operator interface**

Easy-to-read display, simple to operate, connected to PACS 3000 control system.



**Two chamber depths**

The chamber is 450 mm wide, 450 mm high, and 660 mm (or 1000 mm) depth.

**Convenient access**

All maintenance can be performed from the easily accessible front or top in a minimum of time and with a minimum of disruption.

**Automatic vertical sliding door**

For safe, silent, ergonomic operation. Single- or double-door (pass-through) versions are available.

**Easy installation**

Only water and electricity are required – no steam connection needed!

**Short cycle times**

Efficient, effective and fully reliable operation that maximizes capacity utilization.

**High capacity, small footprint**

The compact format makes it easy to install, even where space is limited. The footprint is either 730 x 1850 x 900 mm (660 mm chamber depth) or 730 x 1850 x 1240 mm (1000 mm chamber depth).

Sterilizers HS44-series	Units	Sterilizer model	
		HS4406	HS4410
Chamber volume	L	137	206
Chamber depth	mm	660	1000
Chamber height/width		450	
Capacity (baskets*)	pcs	2	2
Capacity (STU**)	pcs	1,5	2,5

\* Basket size (SPRI): 585x395x195 mm (LxWxH)

\* Basket size (ISO): 600x400x200 mm (LxWxH)

\*\* STU size: 600x300x300 mm (LxWxH) (and modules of)

## SAFETY & RELIABILITY – FROM START TO FINISH

Getinge places great emphasis on safety and reliability, in every respect. Safe, ergonomical operation that poses no hazard to operators. Environmental safety from our ISO 14001-certified manufacturing to the minimized consumption of utilities and resources.



### **Safety door**

The conveniently placed door slides vertically for ergonomical operation, and the self-diagnostic double-control interlocking system assures operator safety.

Both parts consist of independent controls that monitor each other, eliminating the risk of functional failure – and of escaping steam.

### **No peaks**

Thanks to the PACS 3000 PLC control system (see next page), there are no high-temperature peaks that waste energy, destroy goods or cause superheated steam that could jeopardize the sterilization process. There is also a low-temperature alarm that is triggered in the event of a temperature drop.

### **Convenient documentation**

All processes are documented by the integrated recorder, which has independent pressure and temperature sensors. Values are constantly documented by an independent recorder accessible on the sterilizer front.

### **Safety built in**

Safety and reliability are not added on to the Getinge HS44 sterilizer. They are built in, right from the design stage. The robust construction minimizes maintenance, utility consumption and environmental impact.

# PACS 3000 – PRECISION CONTROL MADE SIMPLE

The advanced PACS 3000 PLC control system is specially developed for Getinge sterilizers and washer-disinfectors. It meets FDA requirements and is designed to handle just about any operation you can imagine in this field – with consistently superior results. Moreover, the automatic fault diagnosis means faster service and lower costs.

### User-friendly displays

Despite the high-precision technology behind it, PACS 3000 makes your Getinge HS44 sterilizer very safe and simple to operate, thanks to such features as:

- operator code for non-validated programs
- password-protected menu tree
- fault and information alarms
- notification of service and maintenance intervals
- concise, easy-to-grasp information (available in a selection of languages)

### Superior supervision

PACS 3000 is complemented by the PACS Supervisor, a completely independent monitoring and documentation system. It constantly reviews readings from the PACS 3000 and compares them with its own independent

sensors. If the readings are not within the limits, it triggers an alarm.

The PACS Supervisor prints out all process data on one fasciaprinter, integrated in the sterilizer, from both PACS 3000 and its own readings. It can also send all values to T-DOC – Getinge’s external system for electronic recording and documentation.

### Selection of user interface panels

The Getinge HS44 sterilizer is available with a selection of user-friendly interface panels. Panels OP 20 and 30 are for use on single-door sterilizers or on the loading side of double-door (pass-through) models. Panels OP 10 and 15 are for use on the unloading side of pass-through models.



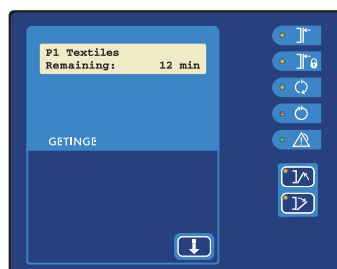
OP 20 User interface



OP 30 User interface



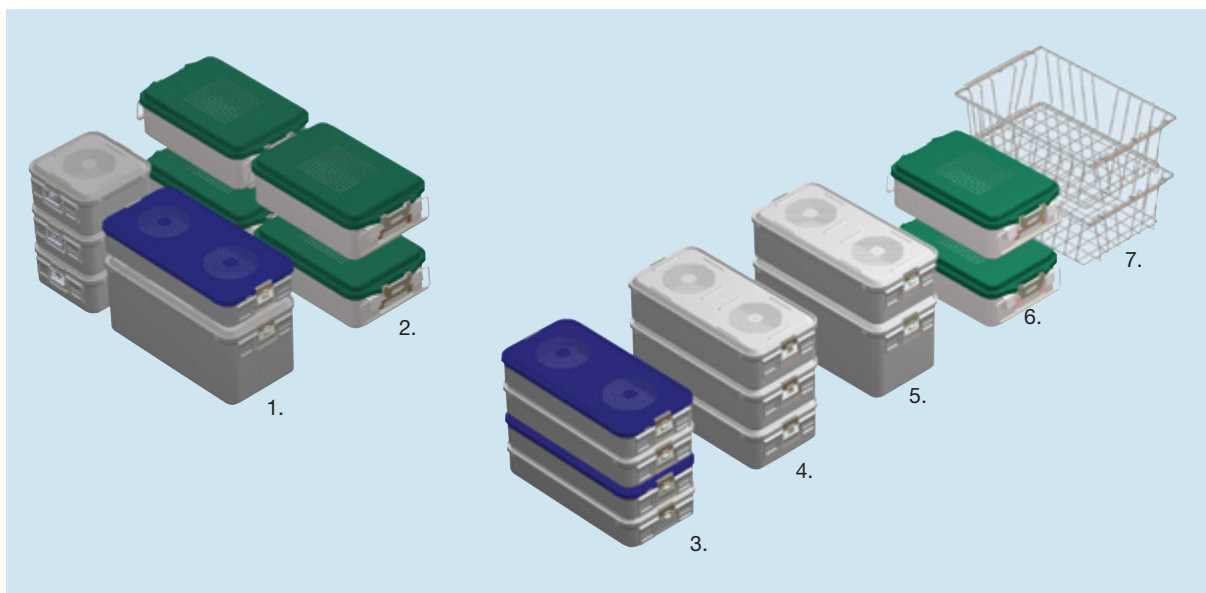
OP 10 User interface



OP 15 User interface

## CAPACITY & FLEXIBILITY

The Getinge HS44 sterilizer is available in two sizes. In both, the chamber opening is 450 x 450 mm. In the Getinge HS4406, the chamber is 660 mm deep, and in the Getinge HS4410 the chamber is 1000 mm deep. Both can be used with just about any standard containers or baskets found on the market – probably including the ones you’re already using. And both sterilizer sizes hold a lot of them!



### **GETINGE HS4410\* LOAD EXAMPLES:**

Most kinds of STU containers, ISO or SPRI baskets – or combinations thereof – can be loaded into the Getinge HS4410. And with its 1000 mm deep chamber, this sterilizer can be loaded with double stacks. See examples 1-2.

### **GETINGE HS4406\*\* LOAD EXAMPLES:**

Takes most kinds of STU containers, ISO or SPRI baskets – or combinations thereof. See examples 3-7.

\* Certain accessories from Getinge 2410 sterilizers are compatible with this model.

\*\* Certain accessories from Getinge 2406 sterilizers are compatible with this model.

# LOADING SYSTEMS TO MATCH YOUR NEEDS

Getinge HS44 sterilizers offer two alternative loading systems. Both are safe and reliable. Both are ergonomic and easy to use. And both are easy to clean.



## Alternative 1: extendable shelves

L-rails are mounted on the chamber walls and may be adjusted to accommodate up to three extendable shelves.

The wire shelves are sturdy and easy to clean.

Shelves can be pulled out halfway for convenient loading. They are also easy to remove by lifting.

## Alternative 2: Loading trolley

and shelf rack

The shelf rack (with up to 3 removable shelves) is loaded directly at the point of use.

Since the shelf rack is already on a loading trolley, it can be taken straight to the sterilizer – and no lifting is needed.



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.

# GETINGE

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## GETINGE

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