

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 3500 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.

Color screen/operator interface

Easy-to-read display, simple to operate, connected to PACS 3500 control system.

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.

Two chamber depths

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

Easy installation

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

Automatic vertical sliding door

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

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).



Getinge HS44-series: Model range and dimensional table

Sterilizers HS44-series	Units	Sterilizer Model			
		HS4406 -1	HS4406 -2	HS4410 -1	HS4410 -2
Chamber volume	L/cu.ft	141/5	133/4.7	209/7.4	133/7.1
Chamber depth	mm/in.	660/26		1000/39.4	
Chamber width		450/17.7			
Chamber height		440/17.3			
Capacity Baskets*	pcs	2	2	2	2
Capacity STU**	pcs	1.5	1.5	2.5	2.5

The table shows single-door (-1) and double-door (-2) versions.

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

** Basket/container size (STU): 600x300x290 mm (LxWxH). Smaller modules are available.

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 3500 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.

USER-FRIENDLY CONTROL SYSTEM

THE PACS 3500

The sterilizer is equipped with the revalidated, advanced, PACS 3500 PLC that 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

PACS 3500 PLC is an extremely user-friendly control unit that assures reliably accurate sterilization programs. Simply put, it's a control system you can rely on.

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.

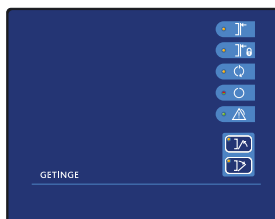
Double Safety

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.

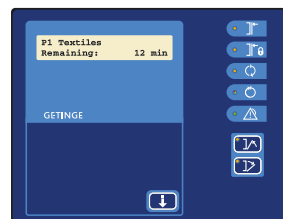
User-Friendly Displays

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.



OP 10 User interface



OP 15 User interface



OP 20 User interface



OP 30 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, SPRI or DIN 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 shorter containers.

GETINGE HS4406 LOAD EXAMPLES:

Takes most kinds of STU containers, ISO, SPRI or DIN baskets – or combinations thereof.



Alternative 1: extendable shelves/slide out 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.

See separate product specification for further details.

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 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.

See separate product specification for further details.



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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