Product specification

GSS-P Steam Sterilizer series for Biopharma applications

GETINGE

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Project Reference

Backed by more than 100 years of experience Getinge's global reach and extensive installed base provides us with the knowledge to assist our customers in planning for optimal and efficient workflows. In this way we help you maximize throughput and provide solutions for efficient production. With our premium equipment, project management, logistics, signature service, and training you can count on Getinge – Right from the start.

The Getinge GSS-P Steam Sterilizers are automatically controlled high performance steam sterilizers built with the latest technology and highest grade materials. A Programmable Logic Controller (PLC) sequences the process and monitors all cycle phases. The state of the art design includes chamber and door(s) where process wetted parts are all high grade stainless steel, piping designed to minimize dead legs and components placed for ease of service. Single and Double-door pass-through models are available with safety features built into the product.

Application

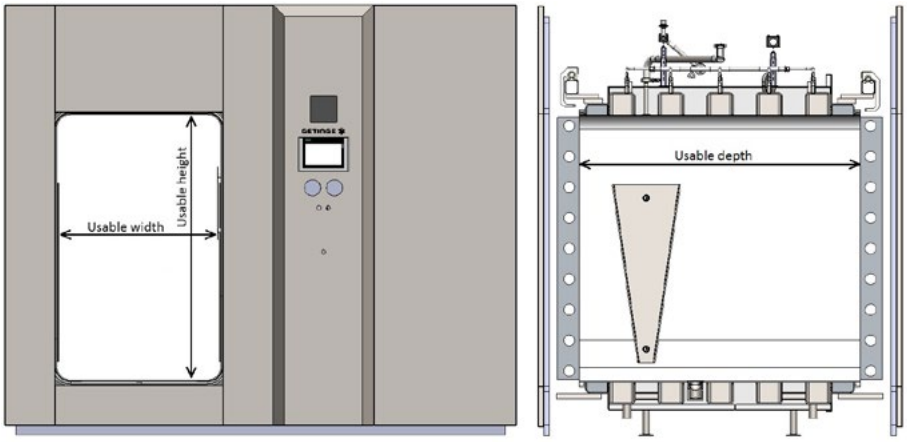
The sterilizer is designed for general purpose steam sterilization in Biopharma applications. There are cycles available for many items including: instruments, utensils, liquids in vented containers, glassware, filters, rubber stoppers and tubes. For Liquids in closed rigid containers there is possibility for jacket cooling and support pressure after sterilization. These and other specific program combinations are available with temperature range from 105–135 °C. Cycles include user programmable parameters for full flexibility. If there are specific requirements, cycles can be tailored to fulfill requirements of the application and also verified in Getinge's test lab.

Quality Statement

Confidence in the Getinge group is the most important quality criteria. This is the hallmark of all our external and internal commitments, activities and products. Products and services supplied by Getinge conform to the agreed terms and expectations. The achievement of these quality goals is the basis for continued competitive and successful enterprise.

	Selection symbols
☐	Standard
○	Optional

GSS-P Standard Sizes



	GSS-P Model	Usable Chamber Dimensions mm			Usable Chamber Dimensions inch			Chamber Volume (Nominal Internal)	
		Width	Height	Depth	Width	Height	Depth	Litres	Feet³
☐	6710	660	700	1000	26″	26 ½″	39 3/8″	470	16.0
☐	6713	660	700	1300	26″	26 ½″	51 1/4″	612	20.7
☐	6910	660	920	1000	26″	36 ¼″	39 3/8″	618	21.8
☐	6913	660	920	1350	26″	36 ¼″	53 1/8"	835	29.5
☐	6915	660	920	1540	26″	36 ¼″	60 5/8"	952	33.6
☐	6917	660	920	1700	26″	36 ¼″	66 7/8"	1051	37.1
☐	71413	670	1450	1350	26 3/8″	57 1/8″	53 1/8″	1370	48.4
☐	91413	870	1450	1350	34 ¼″	57 1/8″	53 1/8″	1762	62.2
☐	91415	870	1450	1540	34 ¼″	57 1/8″	60 5/8″	2010	71.0
☐	91418	870	1450	1800	34 ¼″	57 1/8″	70 7/8″	2349	83.0
☐	91422	870	1450	2200	34 ¼″	57 1/8″	7′ - 2 5/8″	2871	101.4
☐	91815	920	1800	1540	36 ¼″	70 7/8″	60 5/8″	2633	93.0
☐	91825	920	1800	2500	36 ¼″	70 7/8″	8′ - 2 3/8″	4275	151
☐	121422	1220	1450	2200	48″	57 1/8″	7′ 2 5/8″	3892	141
☐	92222	870	2200	2200	34 ¼″	7′ 2 5/8″	7′ 2 5/8″	4356	154
☐	122222	1220	2200	2200	48″	7′ 2 5/8″	7′ 2 5/8″	6050	214
☐	182222	1800	2200	2200	70 7/8″	7′ 2 5/8″	7′ 2 5/8″	8857	313

For more information regarding sterilizer and chamber dimension please refer to typical installation drawings and data sheets.
Custom chamber sizes are available on request.

Program Combination

☐ M4311 Program Combination for Biopharma applications

Program Overview

Program Combination		M4311
Application		GSS-P
		BioPharma

Program name	Option number		
Hard Goods & Textiles	GSS-P		Std.
Wrapped Goods	GSS-P		Std.
Rapid Process	G4920	◯	Option
BowieDick Test	G4922	◯	Option
Delicate Equipment	GSS-P		Std.
Rubber Stoppers	G4924	◯	Option
Liquids Open	G4926	◯	Option
Liquids Closed [1, 6]	G4930	◯	Option
HPV Decontamination [2, 4]	Included in G2841		Option
Leak Rate Test	GSS-P		Std.
Air detector Test [2, 3]	Included in G2827		Option
SIP	GSS-P		Std.
WIT [2]	Included in G2822		Option
MIT [2,5]	Included in G2826		Option

[1] Closed liquids cycle available for GSS-P ≤ 92222.
[2] See Process Options.
[3] Air Detector [G2827] the air detector test indicates the presence of air or other non-condensable gases.
[4] Prepared for connection to Hydrogen Peroxide Generator [G2841]. Including connections and program.
[5] Prepared for External Filter Water Intrusion Test (MIT) [G2826].
[6] Liquids closed includes jacket cooling

Installation

Getinge Life Science Sterilizers are available in many configurations to facilitate proper installation. Standard options include:

Number of Doors

- ☐ Double door (2) [G1301] (Standard)
- ○ Single door (1) [G1302] available for GSS-P 71413 and smaller

Installation and Transport Selection

- ☐ Floor mounted (standard)
- ○ Sterilizer pit mounted. Available for GSS-P 71413 and larger [G1113]
- ○ Seismic restraints [G3901]
- ☐ Recessed (R) into wall(s), no side panels (single or double door)
- ○ Cabinet enclosure (C) with side panels (single door) [G1101] (available for GSS-P 6710–6917)
- ○ Mixed (M) recessed into one wall. Cabinet enclosure (double door) [G1102] (available for GSS-P 6710–6917)
- ○ Inspection door mounted in extended fascia [G1131] (not available with mixed or cabinet installation option)
- ☐ Right side service (standard)
- ○ Left side service [G1111]
- ○ Closed crate for shipping [G1151]. All equipment is prepared for freight in plastic wrap to prevent moisture damage and wooden crates to prevent physical damage. Required when sea freight is foreseen eg America and Asia including Japan [G1151] [1]
- ○ Sterilizer dismantled for shipping [G1156] (available for GSS-P 6910–182222)

[1] Inclued in base unit for U.S., Japan and Australia

Barrier Selection

- ○ Cross-contamination barrier (C). The CCB is an air pressure differential seal designed to prevent cross-contamination between classified zones of the facility [G1201]
- ○ Cross-contamination barrier dual (C) [G1202] (Not available as standard option for short chambers 6710–6713, 6910–6913, 71413 or 91413, consult application specialist for guidance)

Utility Connections

GSS-P is equipped with the following utility connections:

- ☐ Separated steam connections for chamber and jacket. Prepared for two different steam qualities ie process steam for chamber and non-process steam for jacket
- ○ Common (one combined) steam connection for chamber and jacket [G2205]
- ☐ Common (one combined) compressed air connection for both process air and instrument air. Process air is used for pressure equalization after drying vaccums and for support pressure during cooling in case of option [G4930] “Liquids closed”.
- ○ Separated air connections for process and instrument air [G2806].
- ☐ Separated water connections for potable water and cooling water. Potable water is used as sealing water for liquid ring vacuum pump and also for indirect jacket cooling in case of option [G4930] “Liquids closed”.
- ○ Common (one combined) potable water connection used both as sealing water for liquid ring vacuum pump as well as cooling [G2305]

Process & Instrumentation

Getinge GSS-P Steam Sterilizers can be configured to meet many different process needs.
As standard, the following fascia mounted gauges are provided with the system:

Control side:

- Chamber pressure/vacuum
- Process steam supply pressure

A jacket pressure gauge is placed in the technical area

Non-Control side:

- Chamber pressure/vacuum

As standard, the following sensors are provided:

- Chamber pressure sensor
- Chamber temperature sensor (process control for GSS-P 69 and larger, not included for GSS 67)
- Drain temperature sensor (process control for GSS-P 67, included in sterile condition for all sizes)
- Jacket temperature sensor
- Load temperature sensor (included in liquid process options)

For GSS-P sterilizer the following features are included in the base configuration:

- Stainless steel sanitary process piping
- Compressed air sterile filter with stainless steel housing
- Inline filter sterilization (SIP)
- Secondary temperature verification in the chamber drain
- Digital read-out of the secondary temperature sensor
- Liquid level sensor downstream from the drain temperature sensor to detect condensate
- Process indicators are diaphragm type and conform to cGMP standards
- Diaphragm sealed pressure transducers and bursting disc in series with chamber pressure relief valve to minimize dead legs
- Process piping is designed and constructed to minimize dead legs (< 6 x d) and achieve drainability
- Stainless steel non-process piping
- One (1) 2-inch tri-clamp chamber port to accommodate temperature sensors for validation
- An emergency stop button in the front fascia will stop the cycle and take the machine to a safe state

Steam Production

Getinge sterilizers are configured for connection to a building (central) steam supply (A) as standard. Optional integral steam generator options are available. Integral steam generators are prepared with a separated steam generator DI feed water supply.

- ◯ Integral electrical steam generator [G2101] (available for GSS-P 6710–6713)
- ◯ Integral steam heated steam generator [G2102] (available for GSS-P 6710–6713)
- ◯ Degassing filter for integral steam generator for removal of non-condensable gases requires integral electrical [G2101] or steam heated [G2102] steam generator [G2312]
- ◯ ISG 200 Clean steam generator. Automatic integral steam to steam generator with feed water unit. Steam production: 200 kg/hr. (420 lbs. /hr.) [G2104]. Electropolished and with material certificates (available for GSS-P 6710–71413)

Other steam supply options, steam generators, pure steam generators with or without separators are available on request.

Steam & Condensate

- ◯ Condensate return. The sterilizer is provided with a non-product contact steam condensate return connection [G2201] (Maximum lift is 5 m / 15 ft)
- ◯ Pressure reduction valve stainless steel for incoming steam to jacket ((max incoming steam pressure 5.5 bar (g) / 80 psi (g)) [G2222]
- ◯ Connections for steam quality test [G2224] (steam test elbow)

Process & Instrumentation (continued)

Draining & Cooling

- ◯ Chilled water recirculation. The sterilizer is equipped to use chilled water for cooling to reduce potable water consumption up to 75 % [G2401]
- ◯ Bypass valve for chilled water recirculation. Preparation for connection to chilled water system ΔT = 6 °C. [G2405]
- ◯ Recirculating jacket cooling. The jacket cooling water is recirculated by a pump and cooled by recirculating chilled water in a heat exchanger [G2402]. Chilled Water Recirculation [G2401] and Closed Liquids Cycle [G4930] required
- ◯ Fan for jacket cooling [G2851] ([G4930] process for closed liquids required). (reduces height 100 mm / 4**″**) (Available for GSS-P 6710–6915)

Process General

- ◯ Automatic filter water intrusion test (WIT). This option is used to automatically test and dry the chamber air filter in place. Developed and available for SARTORIUS filter housing and filter cartridge [G2822]
- ◯ Prepared for external filter water intrusion test (MIT). This feature provides filter test ports to allow an external portable filter testing unit. Includes connection ports, valves and a program to control the valves throughout the test [G2826]
- ◯ Air detector. The air detector test indicates the presence of air or other non-condensable gases.
- ◯ Prepared for connection to external hydrogen peroxide generator, including connections and program [G2841]
- ◯ Ejector assist for vacuum pump, applicable when sealing water temperature exceeds 15 °C [G2813] (Available for GSS-P 6910 or larger)
- ◯ Clean Steam Sample Cooler. Clean steam sample cooler on steam supply line for test of steam quality. Manual valves for sampling and cooling water are included [G2223]

Instrumentation

- ◯ One additional load temperature probe [G2911] [1]
- ◯ Two additional load temperature probes [G2912] [1]
- ◯ Incoming media pressure gauges [G2922]
- ◯ Incoming media alarms [G2931]
- ◯ QT adapter, for insertion of thermocouples through chamber port [G2952]

[1] Requires program Liquids Open [G4926] or program Liquids Closed [G4930]

Mechanical

Getinge's hardware and mechanical systems are the result of extensive experience and detailed design. The sterilizer chamber and door plate are made from solid, high quality 316L stainless steel with internal surfaces highly polished to Ra < 0.5 µm (20 µin). The supporting jacket is made from 304 stainless steel. Door reinforcements are made from corrosion protected carbon steel SA516 Gr60 / EN10028-2 1.0425. The internal corners of the chamber are radiused and the floor slopes to a central drain.

A stainless steel mesh strainer protects the drain port from blockage by debris as well as protecting the components in the drain line from clogging. The sterilizer chamber is insulated with chloride free mineral wool encased by rigid sheet aluminium cladding.

The front fascia of the sterilizer is constructed of 304 stainless steel and is designed to support cleaning of external surfaces. Instrumentation is mounted in a stainless steel panel placed on the side of the sterilizer chamber.

Within the sterile boundary Stainless Steel Sanitary Process Piping is provided, consisting of 316L Stainless Steel piping, automatic valves and components. The surface is mechanically polished with Ra < 0.5 µm (20 µin). The piping and components are orbital welded or with sanitary connections. Material certificates and weld documentation are provided. A stainless steel filter housing with 0.2 µm compressed air sterile filter for pressure equalization of vacuum and if applicable support air pressure is included as standard.

Automatic in-line sterilization of the sterile air filter is provided.

Stainless Steel non-Process piping includes Stainless Steel piping, automatic valves and components (strainers, check valves, safety valve, etc. excluding vacuum pump). Process valves are pneumatically operated piston globe valves for extended life and limited maintenance. Safety relief valves are provided according to pressure vessel codes and local regulations. As an alternative to stainless steel piping, teflon tubing is used when flexible routing is advantageous. The teflon tubing used is rated for a max temperature of 260°C/500°F.

A highly efficient liquid ring vacuum pump protected by a upstream condensor is provided to effectively remove air from within the chamber. The vacuum pump is mounted on vibration dampers and connected with flexible hoses in order to protect against vibration. Getinge's ECO-system where sealing water to the vacuum pump is recirculated and cooled is included as standard. The drain discharge is cooled to reduce the effluent temperature to an average of 60 °C (140 °F) or less.

The door is sealed by a parylene coated silicone rubber gasket. The door gasket is pushed against the back of the door by compressed air and retracted by vacuum.

Pipe insulation

- ○ Piping insulated. Hot pipes (> 60 °C, > 140 °F) are insulated with chloride free high temperature high density cellulose foam wrapped in vinyl. Components are not insulated. Cold pipes are insulated with low density cellulose foam secured with tie-wraps. Hot pipe insulation is included as standard on sterilizers for European market (CE marked) [G3211]

Passivation

- ○ Passivation of interior surfaces. Interior surfaces of the chamber and the chamber doors are passivated after fabrication. Documentation is provided [G3302]

Door functionality

- ○ Air and steam to door gasket [G3511] , steam to door gasket during process.

Control System, Communication & Recording Systems

Getinge's Control System controls the process and monitors displays system functions. It is as standard supplied with a 7" color touchscreen HMI on control side and a 4" color touchscreen HMI on the non-control side. Siemens and Allen Bradley CompactLogix control system is available with similar functionality. The control systems feature a comprehensive alarm/alert system (service intervals, maintenance etc.) and a password protected hierarchical menu structure to control system access. Sterilization cycle data is printed during the cycle and at cycle completion and includes all critical parameters. In case of printer failure the last cycle data can be reprinted.

B&R Control System

- ◯ 10" HMI control side, upgrade from 7" [G4150]
- ◯ 7" HMI non-control side, upgrade from 4" [G4161]
- ◯ 10" HMI non-control side, upgrade from 4" [G4160]
- ◯ Audit trail capable of fulfilling the requirements of FDA 21 CFR Part 11 [G4170]

Siemens

- ◯ Siemens Simatic S7-1500 control system [G4301]
- ◯ TP900 Comfort 9" touch control side [G4311]
- ◯ TP1200 Comfort 12" touch control side [G4312]
- ◯ IPC277D 12" touch PC panel control side [G4315]
- ◯ KTP400 Comfort 4" non-control side [G4316]
- ◯ TP900 Comfort 9" touch non-control side [G4317]
- ◯ TP1200 Comfort 12" touch non-control side [G4318]
- ◯ WinCC Audit. The WinCC Audit option capable of fulfilling the requirements of FDA 21 CFR Part 11 [G4323]

Allen Bradley

- ◯ Allen Bradley CompactLogix series control system [G4201]
- ◯ Panelview 7 Performance 9" HMI control side [G4213]
- ◯ Panelview 7 Performance 12" HMI control side [G4214]
- ◯ Panelview 7 Standard 4" HMI non-control side [G4218]
- ◯ Panelview 7 Performance 9" HMI non-control side [G4219]
- ◯ Panelview 7 Performance 12" HMI non-control side [G4220]

General Control System

- ◯ Dry contact relays, indication of "In Process" and "Alarm Notification" [G4611]
- ◯ Data exchange table [G7105]
- ◯ Multiflow - Dual sterilizer control. Possibility to start a cycle on any side and possibility to unload on any side upon a successful process [G2840] (Requires ≥ 7" HMI on non-control side)

Control System, Communication & Recording Systems (continued)

Printers & Recorders

- ☐ Network printing of batch report (for Allen Bradley ethernet printing)
- ○ Network storage of batch report as PDF [G4812]
- ○ Fascia printer 4" [G4804] (not available for SIEMENS)
- ○ Laser color printer [G4801]
- ○ Jumo paperless recorder [G4712] [1]
- ○ Jumo paperless recorder, 21 CFR part11 [G4713] [1]

[1] Independent recording of Chamber temperature, Chamber pressure, Drain temperature and if applicable liquid load temperature for GSS 67 there is one common sensor or Chamber and Drain temperature

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Electrical

Electrical Cabinet

- ○ Light in electrical enclosure [G5111]
- ○ Stainless steel electrical cabinets, IP65/NEMA 4XSS [G5101]

Electrical General

- ○ Auxiliary electrical outlet in service area [G5331]
- ○ UPS for control system [G5311]
- ○ Connection to building UPS system [G5312]

Power Supply

50 Hertz, 3 phase

- ○ 200 Volt [G5340-01]
- ○ 220 Volt [G5340-02]
- ○ 230 Volt [G5340-03]
- ○ 380 Volt [G5340-04]
- ○ 400 Volt [G5340-05]
- ○ 415 Volt [G5340-06]

60 Hertz, 3 phase

- ○ 200 Volt [G5340-10]
- ○ 208 Volt [G5340-11]
- ○ 220–240 Volt [G5340-12]
- ○ 380 Volt [G5340-13]
- ○ 460–480 Volt [G5340-14]
- ○ 600 Volt [G5340-15]

1 phase connection for control system.

50 Hertz, 1 phase

- ○ 100–120 Volt [G5341-01]
- ○ 200–240 Volt [G5341-02]

60 Hertz, 1 phase

- ○ 100–120 Volt [G5341-10]
- ○ 200–240 Volt [G5341-11]

Testing

Getinge tests each sterilizer to stringent standards developed from years of experience within the Life Science and Healthcare industries. Records of inspection and testing are stored at our facility for the life time of the sterilizer.

Standard options include:

☐ QC test reports including test plan and test progress report are always included:

◯ QC test reports. Full documentation of functional testing includes test plan, test procedures and test records [G6101]

◯ Pre-Qualification. This protocol is executed at the manufacturing site to validate that the unit is functional and reacts in a reproducible manner. The protocol defines all procedures, acceptance criteria, expected responses and documentation of actual responses [G6102]

Factory Acceptance Test / FAT

Includes inspection of deliverables, verification of build and confirmation of correct operation. The results of these activities will be documented in the FAT plan and report.

Customer factory visit. Support by a test engineer is provided during Customer visit. Getinge standard FAT protocol included:

◯ 2 day FAT [G6121-102]

◯ 3 day FAT [G6121-103]

◯ 5 day FAT [G6121-105]

◯ Heat distribution testing [G6131]. Heat distribution testing (temperature mapping) for each process type (max 5 runs).

◯ Calibration of pressure gauges[G6132]

Site Acceptance Test / SAT

◯ IQ/OQ protocols. This protocol is provided by Getinge for execution at the customer site to validate that the unit is functional and reacts in a reproducible manner. The protocol defines all procedures, acceptance criteria, expected responses and documentation of actual responses [G6201]

Documentation & Project Management

Getinge provides specific and detailed documentation with each unit.

The GMP documentation package for GSS-P includes:

- Quality and project plan (QPP)
- Technical specifications (FS, SDS, HDS)
- Alarm specification
- Detailed design documentation
- Sanitary piping documentation
- Vendor data sheets
- Declarations of conformity
- Manuals

User and Quick Guide are provided in the local language (for EU), other manuals and documentation is in English. One paper and one electronic copy of the documentation package are provided.

Documentation & Project Management (continued)

Standard option include:

Technical Specifications

- ☐ Functional specification (FS). FS includes basic and process functions
- ☐ Software design specification (SDS).SDS includes software specific design criteria
- ☐ Hardware design specification (HDS). HDS includes hardware design specification both mechanical and electrical

Design Documentation

- ○ Safety valve calculations [G7301]
- ○ Software application source code [G7306]
- ○ Customized tag number system (SS tags) [G7311]

Construction Documentation

- ☐ Vendor data sheet package (VDS). Component documentation for major components is provided
- ☐ Sanitary piping documentation. Documentation package for welded process wetted components includes weld logs, material certificates, and isometric drawings of the process piping. Material certificates for pressure vessel and non-welded components in the process system are included
- ○ Video boroscope records of process piping welds [G7412]
- ○ Surface finish testing pressure vessel. Test protocols and results from surface finish tests on chamber [G7421]

Manuals

- ○ Additional printed manual per copy [G7601]

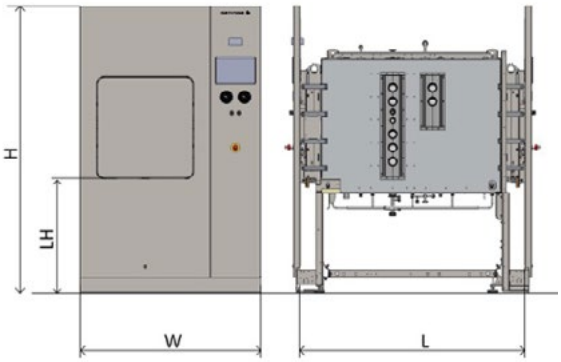
Standards & Codes

Getinge sterilizers comply with the applicable requirements of the following standards, per specific installation location:

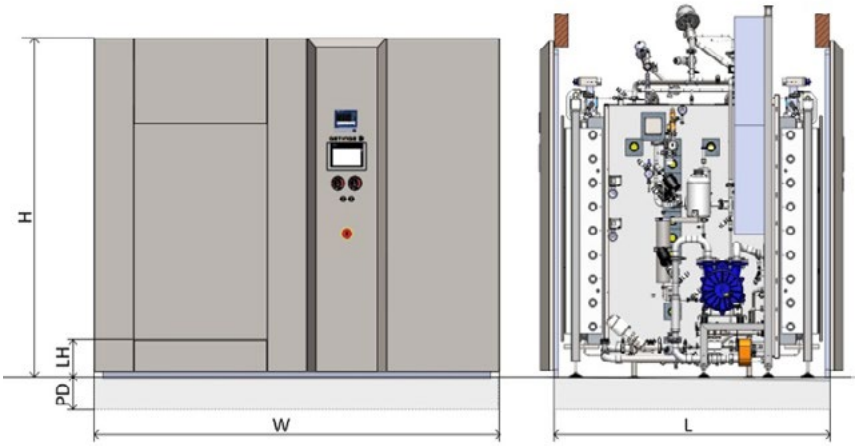
EN/IEC/UL 61010-1	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements.
EN/IEC/UL 61010-2-040	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials.
EN/IEC 60204-1	Safety of machinery – Electrical equipment of machines – Part 1: General requirements.
EN/IEC 61310-1	Safety of machinery – Indication, marking and actuation – Part 1: Requirement for visual, auditory and tactile signals.
EN/IEC 61326-1	Electric equipment for measurement, control and laboratory use.
EN/IEC 61000-3-2	Electromagnetic compatibility – Limits for harmonic current emissions.
EN/IEC 61000-6-1	Electromagnetic compatibility – Immunity for residential, commercial and light industrial environments.

For Pressure Vessels, one of PED (2014/68/EU) / ASME (Section VIII, Division 1), U Stamped / First Class Pressure Vessel MHLW. Local exceptions may apply.

Specification of Layout



GSS 6710–6713



GSS 6910–182222

GSS-P Model	Width	Height Floor/Pit mounted	Loading Height Floor mounted	Pit Depth Pit Mounted	Length Double/single door
6710	1250 mm (4'-1 1/4")	1980 mm (6'-6") / NA	790 mm (2'-7 1/8")	N/A	1350/1330 mm (4'-5 1/8"/ 4'-4 3/8")
6713	1250 mm (4'-1 1/4")				1650/1630 mm (5'-5"/ 5'-4 1/8")
6910	2830 mm (9'-3 3/8")	2350mm (7' 8 1/2") / NA	600 mm (1'-11 5/8")		1426/1370 mm (4'-8 1/8"/ 4'-5 7/8")
6913					1776/1720 mm (5'-9 7/8"/5'-7 3/4")
6915					1966/1870 mm (6'-5 3/8"/ 6'-1 5/8")
6917					2126/2020 mm (6'-11 3/4"/ 6'-7 1/2")
71413	2920 mm (9'-7")	2350 (2350) mm [7'-8 1/2" (7'-8 1/2")]	300 mm (11 3/4")	300 mm (11 3/4")	1770/1715 mm (5'-9 5/8"/ 5'-7 1/2")
91413	3120 mm (10' 2 7/8")	2350 (2350)mm [7'-8 1/2" (7'-8 1/2")]			1776/(N/A) mm [5'-9 7/8"/(N/A)]
91415					1966/(N/A) mm [6'-5 3/8"/ (N/A)]
91418					2226/(N/A) mm [7'-3 5/8"/ (N/A)]
91422					2626/(N/A) mm [8'-7 3/8"/ (N/A)]
91815	3260 mm (10'-8 3/8")	2630(2630) mm [8'-7 1/2" (8'-7 1/2")]			2066/(N/A) mm [9'-7 1/4"/ (N/A)]
91825					3026/(N/A) mm [9'-11 1/8"/ (N/A)]
92222	3240 mm (10'-7 1/2)"	3210(2910) mm [10'-6 3/8" (9'-6 5/8")]			2626/(N/A) mm [8'-7 3/8"/ (N/A)]
121422	3540 mm (11'-7 3/8")	2350(2350) mm [7'-8 1/2" (7'-8 1/2")]			2726/(N/A) mm [8'-11 3/8"/ (N/A)]
122222	3350 mm (10'-11 7/8")	3210(2910) mm [10'-6 3/8" (9'-6 5/8")]			2726/(N/A) mm [8'-11 3/8"/ (N/A)]
182222	4800 mm (15'-9")	3210(2910) mm [10'-6 3/8" (9'-6 5/8")]			2766/(N/A) mm [9'-0 7/8"/ (N/A)]

Loading Equipment & Accessories

Getinge is providing a large range of loading equipment and accessories to fully adapt your sterilizer to your specific needs. Below you will find a selection:

Availability of loading equipment	6710 – 6713	6910 – 6917	71413 – 182222
Rails for Shelf Rack	Yes	Yes	Yes
Shelf Rack	Yes	Yes	Yes
Shelf Trolley			Yes
Extra Shelf	Yes	Yes	Yes
Fixed Height Trolley	Yes	Yes	Yes
Height Adjustable Trolley	Yes	Yes	
SlideOut Shelfs	Yes		
Bumper Rails			Yes
External Guide Rails			Yes
Latching device for floor mounted sterilizer			Yes

For detailed product information see Loading Equipment Product Specifications.

Notes

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Getinge is a global provider of innovative solutions for operating rooms, intensive care units, sterilization departments and for life science companies and institutions. Based on our firsthand experience and close partnerships with clinical experts, healthcare professionals and medtech specialists, we are improving the everyday life for people – today and tomorrow.

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