# GSS67H

## Steam Sterilizer for Healthcare applications

## **Product Specification**

GETINGE
GETINGE GROUP

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 Steam Sterilizers GSS67H are automatically controlled, high performance steam sterilizers built with the latest technology and highest grade materials. The Red Dot Award winning user interface CENTRIC is intuitive and user friendly.

The sterilizer design includes stainless steel chamber, door, piping and components, is designed to facilitate easy cleaning and service.

## 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.

## Application

The sterilizer is intended to sterilize wrapped and unwrapped medical items suited for high pressure steam sterilization at a temperature between 121°C and 135°C, such as surgical instruments, hard goods, textiles, gowns, towel packs, containers, paper and plastic items.

## Chamber volume and size

| | Inner Dimensions | Chamber Volume (Nominal Internal) | |
|---|---|---|---|
| **GSS Conf.** | **W x H x D** | **Single Door** | **Double Door** |
| ☐ 67H10 | 660 x 700 x 1000 mm | 481 L | 468 L |
| ☐ 67H13 | 660 x 700 x 1300 mm | 621 L | 609 L |
| ☐ 67H17 | 660 x 700 x 1700 mm | 809 L | 796 L |
| ☐ 67H20 | 660 x 700 x 2000 mm | - | 937 L |

Customer

Reference

## Capacity

| GSS Conf. | STU | ISO | SPRI |
|---|---|---|---|
| 67H10 | 6 | 6 | 6 |
| 67H13 | 8 | 9 | 9 |
| 67H17 | 10 | 12 | 12 |
| 67H20 | 12 | 12 | 12 |

1 STU = 600 x 300 x 300 mm

1 ISO = 600 x 400 x 200 mm

1 SPRI = 585 x 395 x 195 mm

## Installation

GSS67H is designed to cover a wide range of customer requirements concerning installation of the sterilizer

**Number of doors**

☐ Single door (n/a for 67H20).

☐ Double door (pass through configuration).

GSS67H is installed recessed into wall(s) as standard. Optional installation alternatives are:

☐ XZMM000001 Cabinet Enclosure (single door).

☐ XZMM000002 Mixed. Recessed into wall on non-control side an cabinet on controlside (double door).

GSS67H is serviced from left side as seen from control side as standard. Optional service alternative is:

☐ XZMM000003 Right side service.

The vacuum pump on GSS67 is normally placed within the sterilizer. Optionally it can be located remotely, up to 15m away from the sterilizer, on the same floor or below.

☐ XZMM000004 Remote located Vacuum pump.

**Other installation options**

☐ XZMM000005 Wheels for installation. To move the sterilizer into place during installation.

☐ XZMM000006 Drip tray. A tray to collect water or condensate underneath the sterilizer.

☐ XZMM000007 CCB HC. The CCB is an air pressure differential seal designed to prevent cross-contamination between classified zones of the facility and to keep an air differential pressure between zones. Stainless steel stand is included. CCB and Control Cabinet can not be placed on the same side.

- ☐ Control side
- ☐ Non-control side

**Control cabinet service access**

☐ Control side

☐ Non-control side

**Power cabinet service access**

☐ Control side. Into packing area (only applicable with sidemounted operator panel)

☐ Non control side. Into sterile area (only applicable for double door and side-mounted operator panel )

☐ Service area.

- ☐ Sideways fallback. Placement on control side
- ☐ Backwards fallback. Placement on control side
- ☐ Sideways fallback. Placement on non-control side
- ☐ Backwards fallback. Placement on non-control side

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## Process and Instrumentation

GSS67H sterilizers can be configured to meet many different process needs. It is provided with fascia mounted pressure (vacuum) gauges for chamber and jacket on control side and for chamber on non-control side. It is also provided with temperature sensors for chamber (process control), jacket and load (when applicable) as well as pressure sensor for the chamber. An abort button will end the program and take the machine to a safe state.

**Steam Supply**

GSS67H is configured for connection to a building (central) steam supply as standard. Optional steam supply configurations are available:

☐ Integrated electrical steam generator. An automatic, electrically heated steam generator mounted under the sterilizer chamber. The steam generator pressure vessel is made of stainless steel.

☐ Integrated steam-to-steam converter. An automatic, steam-heated steam generator mounted under the sterilizer chamber. The steam generator pressure vessel is made of stainless steel.

☐ XZMM000013 Combined Central steam/integrated electrical steam generator.

**Note!** Automatic blowdown of generator is always included with integrated steam generator.

☐ XZMM000014 Sample cooler. This option equips the sterilizer with a clean steam sample cooler for test of steam quality.

☐ XZMM000049 Stainless steel safety valve

**Steam Supply options for Central Steam**

☐ XZMM000015 Condensate return. This option provides the sterilizer with a non-product contact steam condensate return connection (Maximum lift is 5m/15ft).

☐ XZMM000016 Automatic shut-off valve. A valve to automatic shut off incoming steam when sterilizer is turned off.

☐ XZMM000017 Pressure Reduction Valve (Brass) for incoming steam.

☐ XZMM000018 Pressure Reduction Valve (Stainless Steel) for incoming steam.

☐ Incoming steam pressure above 3,5 Bar (g). Only applicable for EU and China.

**Steam Supply options for Integral Steam generator**

☐ XZMM000019 Degassing filter. Option to remove non-condensable gasses from the feed water to the steam generator. This option is recommended to fulfil EN285 and also in combination with Air Detector.

**Water Saving options**

GSS67H is normally equipped with a connection to potable water for the internal cooling system. To reduce water consumption the following options can be chosen:

☐ XZMM000020 Chilled water recirculation. The sterilizer is equipped with a connection to a chilled water recirculation loop for cooling to reduce potable water consumption by as much as 95%. The chilled water recirculation loop is not supplied.

☐ XZMM000021 Air cooler. The sterilizer is equipped to use an air cooler for cooling to reduce potable water consumption by as much as 75 - 80%.
Not available for 67H20.

**General Process and Instrumentation options**

☐ XZMM000022 Air detector surveillance. The air detector is surveilling that non-condensable gasses are not retained or introduced into the sterilizer during the air removal and steam admission phases. For testing the performance of the air detector, the sterilizer is equipped with a manual leak valve.

☐ XZMM000023 Media consumption report. Option to monitor consumption of water, steam and energy during a process. The values are also printed on the process report.

☐ XZMM000024 C14 Gauge Package. Additional gauges in service area and power socket for UK

☐ XZMM000025 Media alarm in case of loss of air, steam and water.

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## Sterilization Programs

☐ **M4111 Program combination. The sterilizer is equipped with a set of pre-programmed programs. The six (6) included programs are:**

P1. Sterilization of wrapped solid and hollow instruments, textiles, porous load (134°C). Type tested program for sterilization of medical devices, e.g. textiles, utensils.

P2. Sterilization of wrapped, heat sensitive solid and hollow goods, rubber, plastic, porous load (121°C). Type tested program for sterilization of medical devices.

P3. Rapid process for unwrapped solid single instrument (134°C). A rapid process for e.g. single, non-wrapped instruments. The program can also be used to warm up the sterilizer before daily use or leak test.

P4. Bowie & Dick Test. A test program adapted to the worldwide standard for chemical indicators EN ISO 11140-1 for control of the air removal & steam penetration of the sterilizer program.

P5. Leak rate test. The sterilization process is sensitive to residual or ingress of air into the chamber. If the chamber is not leak-tight, sterilization efficacy may be impaired. Getinge sterilizers are equipped with a fully automatic leak test process to confirm tightness of the chamber and process piping.

P6. Sterilizer start up. A program to warm up the sterilizer before daily use or leak test. This program is using Autostart function where start time is set beforehand.

The included sterilization processes P1 & P2 have a number of post treatment options which can be fully adapted by the end user to existing goods and local conditions, to achieve an optimal drying result.

☐ **M4211 Program combination (XZMM000047). The sterilizer is equipped with a set of pre-programmed programs. The six (6) included programs are:**

P1. Sterilization of wrapped solid and hollow instruments, textiles, porous load (134°C). Type tested program for sterilization of medical devices, e.g. textiles, utensils.

P2. Sterilization of wrapped, heat sensitive solid and hollow goods, rubber, plastic, porous load (121°C). Type tested program for sterilization of medical devices.

P3. Rapid process for unwrapped solid single instrument (134°C). A rapid process for e.g. single, non-wrapped instruments. The program can also be used to warm up the sterilizer before daily use or leak test.

P4. Bowie & Dick Test. A test program adapted to the worldwide standard for chemical indicators EN ISO 11140-1 for control of the air removal & steam penetration of the sterilizer program.

P5. Leak rate test. The sterilization process is sensitive to residual or ingress of air into the chamber. If the chamber is not leak-tight, sterilization efficacy may be impaired. Getinge sterilizers are equipped with a fully automatic leak test process to confirm tightness of the chamber and process piping.

P6. Sterilization of open liquids (121°C). A process to sterilizer liquids in open or vented containers. Not intended for sterilization of liquids used on patient.

The included sterilization processes P1 & P2 have a number of post treatment options which can be fully adapted by the end user to existing goods and local conditions, to achieve an optimal drying result.

**Note!** Liquid programs are not intended for sterilization of liquids used on patient

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## Optional Sterilization Programs

**The sterilizer can be equipped with the following set of pre-programmed programs:**

☐ XZMM000043 Heavy load sterilization of solid wrapped goods (134°C). Type tested program for sterilization of medical devices, e.g. textile. Pre-configured with steam pulses for better drying.

☐ XZMM000044 Multiple sterilization for specific goods (134°C). For the decontamination /sterilization of C.J.D. related goods. Please note that this program is a general purpose program, to be configured according to local requirements and regulations.

☐ XZMM000046 Sterilization of wrapped Silicone prothesis (121°C).
For sterilization of various silicone articles.

☐ XZMM000045 Sterilization of wrapped optical Instruments (134°C).
A program, specially designed to sterilize optical instruments and rigid endoscopes.

☐ XZMM000048 Heat treatment (98°C). For heat treatment of e.g. agar or other media. Not applicable for M4111.

☐ XZMM000051 Plastic pieces (134°C). Program for sterilization of ophthalmic surgical instruments e.g. phaco hand pieces and similar goods with lumen suited for steam sterilization

**Note**! Getinge does not take any responsibility for the sterilization result of processed goods

**Note!** The manufacturer of the medical device to be sterilized is responsible for specifying the applicable sterilization method according to ISO EN 17664.

## 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, EN 1.4404 / ASTM 316L stainless steel. Internal surfaces are highly polished to facilitate cleaning. The internal corners are radiused (also to aid cleaning) and the chamber 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. The sterilizer chamber is completely insulated with a 30–80 mm chloride free mineral wool, encased in rigid sheet aluminum housing. The chamber is as standard mounted on a corrosion protected framework with adjustable feet.

The door is fully automatic in operation and is raised and lowered by a pneumatic cylinder. Door operation is controlled via the operator touch panel. A mechanical safety edge stops the door if it is obstructed while closing, thus protecting the operator and loading equipment. The door is automatically sealed, with safety interlock (for double door units). The door seal is a silicon rubber 'O' ring. On commencement of a process, the gasket is pressed against the rear face of the door by compressed air. At the end of the process, the seal is retracted by vacuum and the door on the unloading side is opened for unloading.

The front fascia of the sterilizer is also made from stainless steel. The fascia is designed in a hygienic way to support cleaning. It is designed to avoid pockets or other places where it could be difficult to clean.

A highly efficient two-stage type liquid ring vacuum pump is provided to effectively remove air from within the chamber. Process valves are pneumatically operated piston valves for extended life and limited maintenance. Safety valves are provided according to pressure vessel codes and local regulations. Standard Process and Non-Process Piping consist of Stainless Steel and automatic valves that are connected with threaded and press fittings. The pipes are insulated with chloride free, high temperature, high density material.

Components are not insulated for easy access. The drain discharge is cooled to reduce the effluent temperature to an average of 70°C or less. An easy to replace chamber vent filter is provided as standard. The filter separation efficiency is higher than 99.995% for particle size 0.3 µm.

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## Mechanical (continued)

Mechanical options:

☐ XZMM000026 Seismic restraints. According to California Zone 4, see specific drawing for details.

The stand is made in corrosion protected material as standard. As option the stand can be made in Stainless steel material.

☐ XZMM000027 Stainless steel stand

## Control System

The G1 controller is dedicated to control Getinge sterilizers. The control system is operated via a very easy-to-use user interface, CENTRIC. The G1 controls all system functions and monitors system operations. G1 both visually and audibly alerts the operator of program malfunctions and provides visual indication of process status. The G1 controller has a built in battery backup, that can support the controller and operator panel for up to 10 seconds in case of power loss.

**Operator Panels**

Control side:
As standard Getinge supply the P30 Panel. This is a 10” touch panel with the Getinge Blue Circle.

Non-control side:
As standard Getinge supply the P30 Panel. This is a 10” touch panel.

**Monitoring and records**

XZMM000028 Supervisor. The G1 Supervisor is an independent monitoring and documentation system. The G1 Supervisor evaluates the process independently of the Controller G1. The system also has an interlock functionality included, preventing doors from opening in unsafe state. Process data from G1 Supervisor is either printed on a paper or is enabled to be stored on the network. For GSS67H G1 supervisor is included as standard.

GSS67H has the operating panel and HMI mounted beside the sterilizer chamber (same side as service side) for ergonomically reasons as standard. Optional mounting alternative is above the sterilizer chamber.

☐ XZMM000029 Operator panel mounted above the chamber. N/A for UK.

Process reports can be produced in many different ways to suit a facility´s workflow

☐ XZMM000030 A4 printer. For printout of process report including process chart on a printer directly connected to the sterilizer.

☐ 2” Fascia printer. For printout of process report. Printer situated in front fascia. Pickup device always included
  - ☐ Printer on control side
  - ☐ Printer on non-control side

☐ XZMM000032 4” Fascia printer. For printout of process report including process chart. Printer situated in front fascia. Pick-up device always included
  - ☐ Printer on control side
  - ☐ Printer on non-control side

☐ XZMM000033 Enabling network printing. For printout of process report including process chart.
For network printing, Lexmark printers are recommended. One printer per order is needed, please chose option XZMM000030 above.

☐ XZMM000034 Enabling network storage. Generating a process report in PDF format. **This is ordered from EDC.**

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## Control System (continued)

☐ XZMM000035 Extra loud audio notification. 80 dB alarm and process ready notification.

☐ XZMM000036 User authentication via RFID. RFID reader on control. Using a RFID tag to authenticate the user eliminates the need to enter user ID and password when there is need to secure only authorized personnel performing certain tasks.

☐ XZMM000037 Multilanguage. Enabling possibility to use different language on operator panel and process report. Make your choice in the Language section.

☐ XZMM000038 USB port on (select one of below options):

- ☐ Control side
- ☐ Non-control side

## Electrical

**Power Supply**

**50 Hertz:**

☐ 200 V
☐ 208 V
☐ 220 V
☐ 230 V
☐ 240 V
☐ 380 V
☐ 400 V
☐ 415 V

**60 Hertz:**

☐ 200 V
☐ 208 V
☐ 220 V
☐ 230 V
☐ 380V
☐ 400 V
☐ 415 V

## Language

Operator displays and operator manuals are available in a selection of languages. Other information and manuals are in english. See XZMM000037 Multilanguage

Tick your selections in the check boxes below, English is default:

A - Display and Manuals, B - Process report

| A | B | | A | B | |
|---|---|---|---|---|---|
| ☐ | ☐ | Bulgarian | ☐ | ☐ | Chinese |
| ☐ | ☐ | Croatian | ☐ | ☐ | Czech |
| ☐ | ☐ | Danish | ☐ | ☐ | Dutch |
| ☐ | ☐ | English | ☐ | ☐ | Estonian |
| ☐ | ☐ | Finnish | ☐ | ☐ | French |
| ☐ | ☐ | German | ☐ | ☐ | Greek |
| ☐ | ☐ | Hungarian | ☐ | ☐ | Icelandic |
| ☐ | ☐ | Italian | ☐ | ☐ | Japanese |
| ☐ | ☐ | Latvian | ☐ | ☐ | Lithuanian |
| ☐ | ☐ | Norwegian | ☐ | ☐ | Polish |
| ☐ | ☐ | Portuguese - Brazil | ☐ | ☐ | Portuguese - Europe |
| ☐ | ☐ | Romanian | ☐ | ☐ | Russian |
| ☐ | ☐ | Slovak | ☐ | ☐ | Slovene |
| ☐ | ☐ | Spanish | ☐ | ☐ | Swedish |
| ☐ | ☐ | Turkish | | | |

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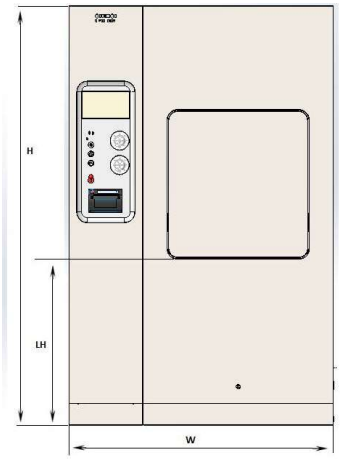
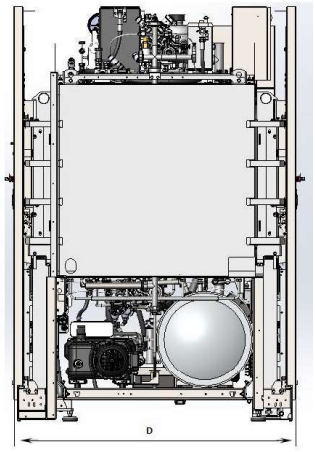
## Directives, Standards & Codes (HC)

Getinge sterilizers comply with the applicable requirements such as current versions of directives and standards:

| | |
|---|---|
| 93/42/EEC | Medical Device Directive as amended by Directive 2007/47/EC |
| 2014/68/EU | Pressure Equipment Directive |
| 2011/65/EU | Restriction of Hazardous Substances Directive |
| 2012/19/EU | Waste Electrical and Electronic Equipment Directive |
| EN ISO 13485 | Medical Devices – Quality management systems – Requirements for regulatory purposes. |
| EN ISO 14971 | Risk Management for Medical Devices |
| EN 285 | Sterilization – Steam sterilizers – Large Sterilizers |
| EN/IEC 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 61326-1 | Electric equipment for measurement, control and laboratory use. |
| EN 62304 | Medical Device Software - Software life cycle processes |
| International and National Standards | Other applicable regulations and standards for sterilizers at the country of intended installation. |

## Specification of layout




| GSS Conf. | Instrumentation location | Width W | Height H | Loading height LH | Depth D 1 Door | Depth D 2 Door |
|---|---|---|---|---|---|---|
| 67H10 | Beside | 1250mm | 1980mm | 790mm | 1330mm | 1350mm |
| 67H13 | | | | | 1630mm | 1650mm |
| 67H17 | | | | | 2030mm | 2050mm |
| 67H20 | | | | | 2330mm | 2350mm |
| 67H10 | Above | 900mm | 1980mm | 790mm | 1330mm | 1350mm |
| 67H13 | | | | | 1630mm | 1650mm |
| 67H17 | | | | | 2030mm | 2050mm |
| 67H20 | | | | | 2330mm | 2350mm |

This is only a rough layout drawing for general purpose. For the specific layout drawing for chosen configuration, please see Getinge document T16923.

# Technical Data GSS67H

T16310 p2 | Revision 10

| Ref[1] | Connection | | Consumption/cycle [2] 67H10 E | 67H10 1/2 | 67H10 1/1 | 67H13 E | 67H13 1/2 | 67H13 1/1 | 67H17 E | 67H17 1/2 | 67H17 1/1 | 67H20 E | 67H20 1/2 | 67H20 1/1 | Peak/h | Supply Condition | Size |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Steam | (kg) | 6 | 9,5 | 12 | 6,5 | 11,5 | 15,5 | 7 | 13,5 | 17,5 | 8 | 15 | 21 | 80 | 2,5-4,5 bar [12, 13] | 1 1/4" DN32 |
| 3 | Potable Water | (l) | 112 | 160 | 185 | 131 | 188 | 228 | 133 | 205 | 262 | 216 | 313 | 386 | 2000 | 3-6 bar,<35°C | 3/4" DN20 |
| 13 | Compressed Air | ($nm^3$) | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,25 | 0,25 | 0,25 | 0,2 | 0,2 | 0,2 | 4 | 5-8 bar | 1/4" DN8 |
| 8 | Drain | (l) | 118 | 170 | 197 | 138 | 200 | 244 | 140 | 219 | 280 | 224 | 328 | 407 | 3000 | <70°C | 1 1/2" DN40 |
| | **Option Condensate Return [XZMM000015]** | | | | | | | | | | | | | | | | |
| 12 | Condensate Return | (l) | 0,5 | 0,6 | 0,7 | 0,7 | 0,85 | 0,95 | 0,75 | 0,95 | 1,05 | 0,9 | 1,15 | 1,4 | 110 | max lift 5m | 3/4" DN20 |
| | **Option Chilled Water Recirculation [XZMM000020]** | | | | | | | | | | | | | | | | |
| 3 | Potable Water | (l) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 2000 | 3-6 bar,<35°C | 3/4" DN20 |
| 10 | Chilled Water [5] | (l) | - | - | - | - | - | - | - | - | - | - | - | - | 5000 | Δp>0,5bar | 1" DN25 |
| | Cooling Energy to Chilled Water System | (kWh) | 6 | 9 | 10 | 6,5 | 10 | 12 | 7 | 11 | 14 | 8 | 12 | 15 | 200 | Δp>0,5bar | 1" DN25 |
| | **Option Air Cooler [XZMM000021]** | | | | | | | | | | | | | | | | |
| | Potable Water [14] | (l) | 28 | 40 | 46 | 33 | 47 | 57 | 33 | 51 | 66 | 54 | 78 | 97 | 2000 | 3-6 bar,<35°C | 3/4" DN20 |
| | **Option Integral Electrical Steam Generator** | | | | | | | | | | | | | | | | |
| 1 | Steam | (kg) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A |
| 2 | Feed Water | (l) | 6 | 9,5 | 12 | 6,5 | 11,5 | 15,5 | 7 | 13,5 | 17,5 | 8 | 15 | 21 | 600 | 3-6 bar,<20°C | 3/4" DN20 |
| | **Option Integral Steam to Steam Generator** | | | | | | | | | | | | | | | | |
| 1 | Steam | (kg) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A |
| 17 | Steam | (kg) | 7 | 11 | 14 | 7 | 14 | 17,5 | 7 | 14,5 | 20 | 9 | 18 | 26 | 100 | 6-8 bar | 3/4" DN20 |
| 2 | Feed Water | (l) | 6 | 9,5 | 12 | 6,5 | 11,5 | 15,5 | 7 | 13,5 | 17,5 | 8 | 15 | 21 | 600 | 3-6 bar,<20°C | 3/4" DN20 |

| | **Performance and Dimensions** | | | | | | | | | | | | | | **Comments** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Process Time, metal load [2,4] | (h:mm) | 0:20 | 0:25 | 0:27 | 0:23 | 0:29 | 0:32 | 0:25 | 0:31 | 0:36 | 0:25 | 0:32 | 0:39 | |
| | Process Time, textile load [3,4] | (h:mm) | - | - | 0:33 | - | - | 0:37 | - | - | 0:43 | - | - | 0:47 | |
| | Usable Space (WxHxL) | (mm) | 660x611x1000 | | | 660x611x1300 | | | 660x611x1700 | | | 660x611x2000 | | | |
| | Chamber Capacity | (STU) | 6 | | | 8 | | | 10 | | | 12 | | | |
| | Weight | (kg) | 880 | | | 960 | | | 1100 | | | 1200 | | | |
| | Sound Power Level LwA [6] | (dBA) | 80 | | | 80 | | | 80 | | | 79 | | | EN 285:2015 and ISO 3746:2010 |
| | Sound Pressure Level LpA [6] | (dBA) | <70 | | | <70 | | | <70 | | | <70 | | | |
| | Heat Generation [7] | (kW) | 2,4 | | | 2,7 | | | 2,8 | | | 3,2 | | | |
| | **Option Integral Electrical Steam Generator, Option Integral Steam to Steam Generator** | | | | | | | | | | | | | | |
| | Weight [8] | (kg) | 970 | | | 1050 | | | 1190 | | | 1290 | | | |
| | Heat Generation [7] | (kW) | 3,3 | | | 3,6 | | | 3,7 | | | 4,1 | | | |
| | **Option Air Detector [XZMM000022]** | | | | | | | | | | | | | | |
| | Air Detector Leak | (mbar/ 10 min) | 35-40 | | | 35-40 | | | 35-40 | | | 25-30 | | | |
| | Test Probe insertion | (mm) | 120 | | | 120 | | | 120 | | | 120 | | | |

| | **Electrical Data, required supply fuse [9]** | 67H10 | 67H13 | 67H17 | 67H20 | **Connection** |
|---|---|---|---|---|---|---|
| | **Central Steam Supply as standard or Integrated Steam-to-Steam converter** | | | | | |
| | 3x200V 50/60 Hz | 20A | 20A | 20A | 25A | TN-C system; 3 phases + protective earth (PE) |
| | 3x208V 50 Hz | 20A | 20A | 20A | 25A | |
| | 3x208V 60 Hz | 20A | 20A | 20A | 25A | |
| | 3x220V 50 Hz | 20A | 20A | 20A | 25A | |
| | 3x220V 60 Hz | 20A | 20A | 20A | 25A | |
| | 3x230V 50 Hz | 16A | 16A | 16A | 25A | |
| | 3x230V 60 Hz | 20A | 20A | 20A | 25A | |
| | 3x240V 50 Hz | 16A | 16A | 16A | 25A | |
| | 3x240V 60 Hz | 20A | 20A | 20A | 25A | |
| | 3x380V 50 Hz | 16A | 16A | 16A | 16A | |
| | 3x380V 60 Hz | 16A | 16A | 16A | 16A | |
| | 3x400V 50 Hz | 16A | 16A | 16A | 16A | |
| | 3x400V 60 Hz | 16A | 16A | 16A | 16A | |
| | 3x415V 50 Hz | 16A | 16A | 16A | 16A | |
| | 3x415V 60 Hz | 16A | 16A | 16A | 16A | |
| | Power(kWh) [10] | 0,5 / 0,53 / 0,55 | 0,6 / 0,7 / 0,75 | 0,65 / 0,8 / 0,8 | 0,85 / 1 / 1,2 | |
| | Peak(kW) | 3,5 | 3,5 | 3,5 | 5 | |
| | **Integrated Electrical Steam Generator or Combined Central Steam/Integrated Electrical Steam Generator** | | | | | |
| | 3x200V 50/60 Hz | 160A | 160A | 200A | 200A | TN-C system; 3 phases + protective earth (PE) |
| | 3x208V 50 Hz | 200A | 200A | 200A | 200A | |
| | 3x208V 60 Hz | 200A | 200A | 200A | 200A | |
| | 3x220V 50 Hz | 160A | 160A | 200A | 200A | |
| | 3x220V 60 Hz | 160A | 160A | 200A | 200A | |
| | 3x230V 50 Hz | 160A | 160A | 200A | 200A | |
| | 3x230V 60 Hz | 160A | 160A | 200A | 200A | |
| | 3x240V 50 Hz | 160A | 160A | 200A | 200A | |
| | 3x240V 60 Hz | 160A | 160A | 200A | 200A | |
| | 3x380V 50 Hz | 100A | 100A | 100A | 100A | |
| | 3x380V 60 Hz | 100A | 100A | 100A | 100A | |
| | 3x400V 50 Hz | 100A | 100A | 100A | 100A | |
| | 3x400V 60 Hz | 100A | 100A | 100A | 125A | |
| | 3x415V 50 Hz | 100A | 100A | 125A | 125A | |
| | 3x415V 60 Hz | 100A | 100A | 125A | 125A | |
| | Power(kWh) [10] | 3,6 / 6,6 / 8,3 | 4,7 / 8,8 / 10,9 | 4,7 / 9,1 / 12,3 | 6,1 / 11,5 / 16,0 | |
| | Peak(kW) | 57 | 57 | 68 | 70 | |

**Notes**

1. Reference to typical installation drawing
2. Metal load according to EN285-23.5, vacuum level 85 mbar; E-Empty chamber, no load; 1/2-Half load; 1/1-Full load. 15 kg/STU. P1 program. Drying is not included
3. Textile load according to EN285-23.4, vacuum level 85 mbar; E-Empty chamber, no load; 1/2-Half load; 1/1-Full load. 7,5 kg/STU. P1 program.
4. Reference measurement point is located 95 mm below bottom of the chamber, position of controlling temperature sensor
5. Chilled water @ΔT=40°C
6. Maximum impulsive noise index for 6710-6717 : 5,0 for 6720 : 7,5
7. Total heat thermal power released from sterilizer with empty chamber and 2 doors both closed at an ambient temp of 23°C ± 2°C. Thermal power released through the front is 0,65 kW/side with closed door and 1,74 kW/side with open door.
8. Total weight of sterilizer including steam generator
9. Tolerances acc to EN61010-1-1.4.1
10. @400V 50Hz
11. Maximum pressure change rate is less than 10bar/min as required by EN285.
12. Steam supply with pressure in range 3,5-4,5 bar(g) requires jacket safety valve which is optional for EU and CN
13. Steam supply above 3,5 bar(g) is not allowed for Japan
14. Performance measured at 23°C air temperature and 15°C water temperature. Max dimensioning air temperature 40°C.



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## Loading equipment and accessories

☐ XZMM000041 Prepared for Automatic loader.

☐ XZMM000042 Prepared for Automatic unloader.

Loading Equipment are separate products and therefore have their own product specifications.

See also list of approved accessories.

## Disclamer

Do not use this product specification for installation of equipment!

We reserve the right to correct clearical errors and the right to change without notification!


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