

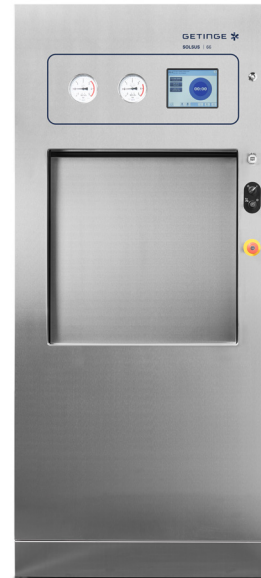
# Product Specification

## Getinge Solsus 66 Steam Sterilizer

### Application

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 equipment, project management, logistics, signature service and training, you can count on Getinge – right from the start.

Getinge Solsus 66 is a fully automatic steam sterilizer. It has pre-set programs for the most common sterilization processes for general-purpose hospital use. The program cycles employ mechanical air removal with a series of vacuum/pressure pulses to effectively remove air for assured sterilization. The chamber dimensions are adapted to sterilization, using wire baskets according to SPRI & ISO, or containers according to DIN.



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### 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.

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### Intended Use

The Steam Sterilizer is intended for use by health care facilities to sterilize wrapped and unwrapped porous and nonporous heat and moisture stable items such as surgical instruments and linens by means of pressurized steam.

## Order Information

Customer: \_\_\_\_\_

Reference: \_\_\_\_\_

### About this Form

This part of the document is an order form. Mark your selections

= Standard selection (included in base price)

= Optional selection (not included in base price, additional cost)

### Documentation

State your country for the correct language in the enclosed manuals.

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## Chamber Volume and Size

ST001 Conf.	Inner Dimensions W x H x D	Usable Space W x H x D	Chamber Volume
<input type="checkbox"/> ST001-10	672 x 672 x 1,000 mm	660 x 660 x 1,000 mm	449 L
<input type="checkbox"/> ST001-13	672 x 672 x 1,300 mm	660 x 660 x 1,300 mm	584 L
<input type="checkbox"/> ST001-17	672 x 672 x 1,700 mm	660 x 660 x 1,700 mm	764 L
<input type="checkbox"/> ST001-20	672 x 672 x 2,000 mm	660 x 660 x 2,000 mm	899 L

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## Capacity

ST001 Conf.	STU	ISO	SPRI
ST001-10	6	6	6
ST001-13	8	9	9
ST001-17	10	12	12
ST001-20	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

Getinge Solsus 66 is designed to cover a wide range of customer requirements concerning installation of the sterilizer.

### Number of Doors

- Single Door (n/a for ST001-17 and ST001-20)
- Double Door

### Service Access

Getinge Solsus 66 is serviced from right side (seen from control side) as standard. Optional service alternative is:

- Left side service

### Installation Selections

- Recessed Through Two Walls (R)  
[Single/Double door, Above / Beside chamber door]
- Recessed Through Wall with Cabinet (M)  
[Double door, Above chamber door]
- Cabinet enclosure (C)  
[Single door, Above chamber door]

### ECO™ water saving system

- Getinge ECO™ system is a water saving system used to limit the consumption of the water utility during the process.
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## Mechanical

### Chamber

Surfaces in contact with sterilizing process on the chamber and door is made in AISI 316L/1.4404 stainless steel. The jacket is made of AISI 304/1.4301

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.

The sterilizer chamber is completely insulated with a 30-80 mm chloride free mineral wool, encased in a rigid removal sheet aluminum housing. The chamber is mounted on a painted carbon steel framework with adjustable feet.

### Validation Connection

The chamber is provided with one 1/2" threaded connection for optional vacuum/pressure gauge (PT) and a 1" connection for test sensor (TT).

## Automatic, Vertically Sliding Door(s)

The door is fully automatic in operation and is raised and lowered by a pneumatic cylinder. Door operation is controlled via push buttons on the control 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. 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.

## Personnel Safety Features

In addition to the door safety systems, the chamber is provided with a pressure monitoring system that ensures that all chamber pressure has been relieved prior to allowing the door(s) to open. As an essential safety feature, when the door seal is retracted the chamber is completely vented to atmosphere while the door is still retained in the fully closed and mechanically locked position.

## Mechanical Vacuum Pump

A highly efficient liquid ring vacuum pump, mounted on vibration isolators for quiet operation, is provided to effectively remove air from within the chamber. The vacuum pump is connected in series with an efficient condenser to assist air removal and protect the vacuum pump from excessive temperatures. The vacuum pump is protected with a low water alarm on the seal water. The pump can be slid out for easy service.

## Air Filter

A disposable air filter is provided, for filtering of the atmospheric air, entering the chamber. The air is used to equalize the chamber pressure at the end of the sterilization cycle. The filter separation efficiency is higher than 99,995% for particle size 0,3µm.

## Valves and Components

All process valves are pneumatically operated piston valves, providing longer service life and less maintenance than electrical solenoid valves. Safety valves are made of brass. All standard components are non-proprietary and easily sourced. Hot pipes are thermally insulated.

## Pipes and Valves

All valves are made of stainless steel, all piping are made of stainless steel or polymer hose.

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## Electrical

### Electrical Components

Terminals, contactors etc. are housed in a water-tight cabinet (IP54). Other electrical components e.g. switches and valves are mounted directly on the sterilizer. Electrical cabinet placement:

- Backwards clearance distance [Standard for R installations]
- Sideways clearance distance [standard for M&C installations]
- Sideways clearance distance for R installations

## Power Supply

Before selection of Power Supply, please check your facilities power supply capacity towards required electrical power supply in table "Technical Data Getinge Solsus 66".

### 3P 50Hz

- 220V
- 230V
- 380V
- 400V
- 415V

### 3P 60Hz

- 220V
  - 230V
  - 380V
  - 400V
  - 415V
- 

## Language

Tick your selections for display and manual in the check boxes below, English is default:

**Note!** The process report is only available in English.

- |                                  |                                  |
|----------------------------------|----------------------------------|
| <input type="radio"/> Bulgarian  | <input type="radio"/> Chinese    |
| <input type="radio"/> Czech      | <input type="radio"/> Danish     |
| <input type="radio"/> Dutch      | <input type="radio"/> English    |
| <input type="radio"/> Estonian   | <input type="radio"/> Finnish    |
| <input type="radio"/> French     | <input type="radio"/> German     |
| <input type="radio"/> Hungarian  | <input type="radio"/> Icelandic  |
| <input type="radio"/> Italian    | <input type="radio"/> Japanese   |
| <input type="radio"/> Latvian    | <input type="radio"/> Lithuanian |
| <input type="radio"/> Norwegian  | <input type="radio"/> Polish     |
| <input type="radio"/> Portuguese | <input type="radio"/> Romanian   |
| <input type="radio"/> Russian    | <input type="radio"/> Slovak     |
| <input type="radio"/> Slovenian  | <input type="radio"/> Spanish    |
| <input type="radio"/> Swedish    |                                  |

## Process and Instrumentation

### Steam Supply

Getinge Solsus 66 has the following steam supply configurations as standard to choose from:

- Central steam supply
- Integrated electrical steam generator.  
An automatic, integral, electrically heated steam generator mounted under the sterilizer chamber. The integral steam generator pressure vessel is made of stainless steel 316L, insulated with 50 mm chloride free mineral wool enclosed in a rigid removable aluminium sheet housing. A water level glass for inspection of the pressure vessel is visible from the service area.
- 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

### Water Quality for Steam Generator

Minimal water quality requirement for steam generator is hardness < 4 dH and conductivity > 2 µS/cm (if lower than 2 µS/cm, it will affect the function of steam generator).

The sterilizer is equipped with dual water connections for different water quality for cooling water and steam generator.

### Pressure Gauges

Pressure gauges in kPa/bar are provided for:

- Chamber pressure [fascia panel mounted]
  - Steam supply pressure [fascia panel mounted]
- 

## Control System

The PACS 3500 modular PLC control system dedicated to controlling of Getinge sterilizers, including:

- CPU processor with battery backup
- Digital in/ and outputs for sterilizer control
- Analog measuring inputs
- COM ports for printer & PC communication

The PACS 3500 controls all system functions, monitors system operations, both visually and audibly alerts the operator of cycle malfunctions and, on demand, provides visual indication of the chamber temperature and pressure.

### Operator Panels

The PACS 3500 control system is operated via an easy-to-use "menu tree". As default, the operator has access to the cycle selection, cycle start and door control. Operators can only run type-tested cycles. Access to other functions, such as running test cycles, setting parameters, calibration, service and maintenance is controlled using pre-defined access levels preventing unauthorized access.

## Operator Panel on Control Side

Avanti 8,4" color touch screen



## Operator Panel on Non-Control Side

Membrane switch panel with LEDs



Avanti 8,4" color touch screen

## Operator Panel Location

Above chamber door

Beside the chamber door on service side (will increase the total width)

## Temperature and Pressure Sensors

The PACS 3500 control system has a built-in linearization, to correct the individual characteristics of each type of sensor connected to the system. Each sensor is calibrated with individual constants to correct the deviation in manufacturing and aging. The following sensors are provided and are used in the automatic control of the sterilizer:

- Chamber Drain Temperature Sensor
- Jacket Temperature Sensor
- Chamber Pressure Sensor

The temperature sensors are Pt100, which complied to IEC 60751:2008. The pressure sensor is temperature compensated. Accuracy is 1% over the range 0 to 5 bar.

## Alarms

Automatic process checking and failure corrections are provided with the PACS 3500 control system. In the event of an anomaly during the sterilization cycle, the process enters an alarm phase which safely will end the process automatically. Process stepping, continue and reset of certain alarms can be easily performed from the operator panel, through authorization pin code. The range of alarms include:

- Temperature & pressure sensor failure
- Phase time-outs
- Door(s) not properly closed
- Power failure (less than 10 seconds will be ignored)
- Continuous self-checking of all safety devices
- Low water level (seal water to vacuum pump)

## Self-Diagnostic Program

PACS 3500 features a comprehensive alarm/alert system, with automatic triggering of pre-programmable information alerts (service intervals, maintenance etc.).

## PACS 3500 Cycle Documentation

The PACS 3500 supports following printing modes:

- Data printout – numerical data.

Cycle performance data is printed during the cycle and at cycle complete. The printed cycle information includes transition points, pressure and temperatures, cycle start time, date, both sterilizer and cycle number, and any alarm that occurred during the cycle. In case of printer failure during the cycle, the PACS 3500 stores the cycle data and can, on demand, reprint the last cycle.

## Independent Cycle Documentation

The independent cycle documentation is using separate sensors, connected directly to the supervisor.

PACS Supervisor is a completely independent monitoring and documentation system that constantly receives readings from PACS 3500 and compares them with own independent sensors. A continuous cross-check of the sterilizer safety system and the sterilization period according to the limit values in EN-285 & EN-554 is also performed. PACS Supervisor prints all process data on one printout, eliminating the need for a separate recorder.

## Network Communication

Getinge offers many ways to communicate with the sterilizers. Network communication will give you the ability to connect with network applications to come such as Getinge T-DOC System and Getinge Online. Getinge can also offer a stand-alone option where all cycle data can be stored on a USB stick.

Printer connected to supervisor (connection located in service area):

- 2" Fascia panel printer (For double door, mounted on non-control side ; for single door , mounted on control side)
- A4 printer
- Prepared for network communication (This option is for T-DOC system and Getinge Online. A local service technician needs to provide service on-site to finish the setup.)
- Network communication with USB port on control side
- Network communication with USB port on non-control side
- 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 "A4 printer" above.



## Sterilization Programs

The sterilizer is equipped with a set of pre-programmed programs.

- Programs included in program combination Getinge Solsus 66-B3111 w/o specific goods**
- Programs included in program combination Getinge Solsus 66-B3111 with specific goods**

The seven (7) included programs are:

- P1. Wrapped goods, textiles, porous load (134°C)  
For sterilization of medical devices; e.g. textiles, utensils according to EN285.
- P2. Wrapped, heat sensitive material, rubber, plastic, porous load (121°C)  
For sterilization of medical devices; e.g. rubber and plastic utensils according to EN285.
- P3. Rapid process for single, open instrument Password required. A rapid process for e.g. single, non-wrapped instruments. The cycle can also be used to warm up the sterilizer before daily use or leak test.
- P4. Bowie Dick Test  
Password required. A test cycle adapted to the worldwide standard for chemical indicators EN ISO 11140-1 for control of the air removal & steam penetration of the sterilizer cycle.
- P5. Automatic leak test  
Password required. 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 leak tightness of the chamber.
- P7. Heavy load (134°C)  
For sterilization of medical devices; e.g. textiles, utensils according to EN285.
- P8. Specific goods (134°C)

- Programs included in program combination Getinge Solsus 66-B3211 w/o specific goods**
- Programs included in program combination Getinge Solsus 66-B3211 with specific goods**

The eight (8) included programs are:

- P1. Wrapped goods, textiles, porous load (134°C)  
For sterilization of medical devices; e.g. textiles, utensils according to EN285.
- P2. Wrapped, heat sensitive material, rubber, plastic, porous load (121°C)  
For sterilization of medical devices; e.g. rubber and plastic utensils according to EN285.
- P3. Rapid process for single, open instrument  
Password required. A rapid process for e.g. single, non-wrapped instruments. The cycle can also be used to warm up the sterilizer before daily use or leak test.
- P4. Bowie Dick Test  
Password required. A test cycle adapted to the worldwide standard for chemical indicators EN ISO 11140-1 for control of the air removal & steam penetration of the sterilizer cycle.
- P5. Liquids, open (121°C)  
Password required. The process is intended for the sterilization of liquids in open or vented containers.
- P6. Automatic leak test  
Password required. 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 leak tightness of the chamber.
- P7. Heavy load (134°C)  
For sterilization of medical devices; e.g. textiles, utensils according to EN285.
- P8. Specific goods (134°C)

# Program Combination Getinge Solsus 66-B3111

**Note!** Liquids must be processed with appropriate liquid programs only. Hazardous waste and explosive materials must not be processed in this sterilizer.

**Note!** Door-blocking Key

The door does not close when the key is in the locked position and the door is in open position, as indicated by the symbol. When entering or cleaning the chamber the key must be removed from the locking device.

## P1 Wrapped Goods, Textiles, Porous Load

RAX2000						
		Parameter		Range	Delivered	Actual
		Negative Pulses	---	3	3	.....
		Positive Pulses	---	5	5	.....
	1	Sterilizing Temperature	°C	134	134	.....
	2	Sterilizing Time	min	3-7	4	.....
	3	Postvacuum Time	min	0-90	5	.....
4	Postpuls Steam	min	0-90	0	.....	
5	Postpuls Air	min	0-90	0	.....	

## P2 Wrapped, heat sensitive material, rubber, plastic, porous load

RAX2001						
		Parameter		Range	Delivered	Actual
		Negative Pulses	---	3	3	.....
		Positive Pulses	---	5	5	.....
	1	Sterilizing Temperature	°C	121	121	.....
	2	Sterilizing Time	min	16-20	16	.....
	3	Postvacuum Time	min	0-90	5	.....
4	Postpuls Steam	min	0-90	0	.....	
5	Postpuls Air	min	0-90	0	.....	

## P3 Rapid process for single, open instrument

RAX2002 <i>Password required!</i>						
		Parameter		Range	Delivered	Actual
		Negative Pulses	---	1	1	.....
		Positive Pulses	---	2	2	.....
	1	Sterilizing Temperature	°C	134	134	.....
2	Sterilizing Time	min	3-90	4	.....	
3	Postvacuum Time	min	0-90	3	.....	

## P4 Bowie-Dick Test

RAX2003		Password required!				
		Parameter		Range	Delivered	Actual
		Negative Pulses	---	3	3	.....
		Positive Pulses	---	5	5	.....
	1	Sterilizing Temperature	°C	121 – 135	134	.....
	2	Sterilizing Time	min	0 – 15	1	.....
	3	Postvacuum Time	min	0 – 90	3	.....

## P5 Automatic Leak-Rate Test

RAX2004		Password required!				
		Parameter		Range	Delivered	Actual
	1	Stabilizing Time	min	10 – 90	10	.....
	2	Test Time	min	10	10	.....

## P7 Wrapped Goods, Heavy Load

RAX2100		Password required!				
		Parameter		Range	Delivered	Actual
		Negative Pulses	---	3	3	
		Positive Pulses	---	5	5	
	1	Sterilizing Temperature	°C	121 – 134	134	.....
	2	Sterilizing Time	min	3 – 20	4	.....
	3	Postvacuum Time	min	0 – 90	3	.....
	4	Postpuls Steam	min	0 – 90	0	.....
	5	Postpuls Air	min	0 – 90	15	.....

## P8 Specific Goods

RAX2106		Password required!				
		Parameter		Range	Delivered	Actual
		Negative Pulses	---	3	3	
		Positive Pulses	---	5	5	
	1	Sterilizing Temperature	°C	134	134	.....
	2	Sterilizing Time	min	18 – 600	18	.....
	3	Postvacuum Time	min	0 – 90	5	.....
	4	Postpuls Steam	min	0 – 90	0	.....
	5	Postpuls Air	min	0 – 90	0	.....

# Program Combination Getinge Solsus 66-B3211

**Note!** Hazardous waste and explosive materials must not be processed in this sterilizer.

**Note!** Door-blocking Key

The door does not close when the key is in the locked position and the door is in open position, as indicated by the symbol. When entering or cleaning the chamber the key must be removed from the locking device.

## P1 Wrapped Goods, Textiles, Porous Load

RAX2000						
		Parameter		Range	Delivered	Actual
		Negative Pulses	---	3	3	.....
		Positive Pulses	---	5	5	.....
1		Sterilizing Temperature	°C	134	134	.....
2		Sterilizing Time	min	3 – 7	4	.....
3		Postvacuum Time	min	0 – 90	5	.....
4		Postpuls Steam	min	0 – 90	0	.....
5		Postpuls Air	min	0 – 90	0	.....

## P2 Wrapped, heat sensitive material, rubber, plastic, porous load

RAX2001						
		Parameter		Range	Delivered	Actual
		Negative Pulses	---	3	3	.....
		Positive Pulses	---	5	5	.....
1		Sterilizing Temperature	°C	121	121	.....
2		Sterilizing Time	min	16 – 20	16	.....
3		Postvacuum Time	min	0 – 90	5	.....
4		Postpuls Steam	min	0 – 90	0	.....
5		Postpuls Air	min	0 – 90	0	.....

## P3 Rapid process for single, open instrument

RAX2002 <i>Password required!</i>						
		Parameter		Range	Delivered	Actual
		Negative Pulses	---	1	1	.....
		Positive Pulses	---	2	2	.....
1		Sterilizing Temperature	°C	134	134	.....
2		Sterilizing Time	min	3 – 90	4	.....
3		Postvacuum Time	min	0 – 90	3	.....

## P4 Bowie-Dick Test

RAX2003		Password required!				
		Parameter		Range	Delivered	Actual
		Negative Pulses	---	3	3	.....
		Positive Pulses	---	5	5	.....
	1	Sterilizing Temperature	°C	121 – 135	134	.....
	2	Sterilizing Time	min	0 – 15	1	.....
	3	Postvacuum Time	min	0 – 90	3	.....

## P5 Liquids in open or vented containers

RAX2004		Password required!				
		Parameter		Range	Delivered	Actual
	1	Sterilizing Temperature	°C	105 – 134	121	.....
	2	Sterilizing Time	min	3 – 90	20	.....
	3	Postvacuum Time	min	20 – 200	20	.....

## P6 Automatic Leak-Rate Test

RAX2004		Password required!				
		Parameter		Range	Delivered	Actual
	1	Stabilizing Time	min	10 – 90	10	.....
	2	Test Time	min	10	10	.....

## P7 Wrapped Goods, Heavy Load

RAX2100		Password required!				
		Parameter		Range	Delivered	Actual
		Negative Pulses	---	3	3	.....
		Positive Pulses	---	5	5	.....
	1	Sterilizing Temperature	°C	121 – 134	134	.....
	2	Sterilizing Time	min	3 – 20	4	.....
	3	Postvacuum Time	min	0 – 90	3	.....
	4	Postpuls Steam	min	0 – 90	0	.....
	5	Postpuls Air	min	0 – 90	15	.....

## P8 Specific Goods

RAX2106		Password required!				
		Parameter		Range	Delivered	Actual
		Negative Pulses	---	3	3	.....
		Positive Pulses	---	5	5	.....
	1	Sterilizing Temperature	°C	134	134	.....
	2	Sterilizing Time	min	18 – 600	18	.....
	3	Postvacuum Time	min	0 – 90	5	.....
	4	Postpuls Steam	min	0 – 90	0	.....
	5	Postpuls Air	min	0 – 90	0	.....

## Preparation for Loading Equipment

Getinge hospital sterilizers are designed for various ways of manual loading.

Please refer to separate leaflets for detailed information and specifications on loading equipment.

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## Packing for Shipment

Case

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## Conformity

MAQUET GmbH (Rastatt) is certified to develop, design and manufacture products for the health care sector.

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## Directives, Standards and Codes (HC)

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

(EU) 2017/745	Medical Device Regulation
2014/68/EU	Pressure Equipment Directive
2006/42/EC	Machinery Directive
EN 285:2015	Sterilization - Steam sterilizers - Large Sterilizers
EN 61010-1:2010+A1:2019	Safety requirements for electrical equipment for measurement, control, and laboratory use - General requirements
EN IEC 61010-2 - 040:2015	Safety requirements - Particular requirements for sterilizers used to treat medical materials in health care or in laboratory, veterinary, pharmaceutical and laboratory fields
EN 61326-1:2013	EMC requirements - General requirements for measurement, control and laboratory use
EN ISO 17665-1:2006	Sterilization of Health Care Products-Moist Heat-Part 1: Requirements for the development, validation and routine control of a sterilization process for medical devices
EN ISO 13485:2016/AC2016	Medical Devices - Quality management systems - Requirements for regulatory purposes
EN ISO 14001:2015	Environmental Management Systems – Requirements with guidance for use

## Disclaimer

Do not use this product specification for installation of equipment!

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

## Legal Manufacturer

MAQUET GmbH  
Kehler Str. 31  
76437 Rastatt  
GERMANY

Phone: +49 (0) 7222 932-0

Fax: + 49 (0) 7222 932 855

## Technical Data Getinge Solsus 66

Connection		Consumption/cycle*				Peak/h	Supply Connection	Size	Comments
		ST001-10	ST001-13	ST001-17	ST001-20				
Potable Water	(l)	262	378	464	669	2,500	3 – 6 bar	1/2" DN15	Temp. 20°C**, <4dH (0.7 mmol/l)
Potable Water (ECO)	(l)	220	295	361	536	2,300	3 – 6 bar	1/2" DN15	
Steam	(kg)	13	20	23	24	90kg	2.5 – 2.7 bar	3/4" DN20	N/A if steam generator/convertor
Compressed Air	(nm <sup>3</sup> )	0,3	0,8	0,8	1,3	4	6 - 8 bar	3/8" DN10	Air to be free of oil and water
Drain	(l)	275	398	487	692	2,650	N/A	1 1/2" DN40	Max. discharge temperature 70°C
<b>Option Integral Electrical Steam Generator</b>									
Steam	(kg)	0	0	0	0	0	N/A	N/A	
Feed Water	(l)	13	20	23	24	750	3 - 6 bar	1/2" DN15	Temp 20°C**, <4dH (0.7 mmol/l)
Drain with Steam Generator	(l)	>275	>398	>487	>692	7,000	N/A	1 1/2" DN40	Drain pipe shall have cooling facilities
<b>Option Integral steam-to-steam converter</b>									
Steam	(kg)	21,6	28,8	28,8	34,5	90	5.5 - 6 bar	3/4" DN20	For convertor
Feed Water	(l)	13	20	23	24	800	3 - 6 bar	1/2" DN15	Temp 20°C**, <4dH (0.7 mmol/l)
Drain with Steam Generator	(l)	>275	>398	>487	>692	7,000	N/A	1 1/2" DN40	Drain pipe shall have cooling facilities
<b>Performance and Dimensions</b>									
Process Time	(min)	43	55	62	65	<b>Comments</b>			
Chamber	(STU)	6	8	10	12	1 STU = 600x300x300 mm			
Heat Generation***	(kW)	4,15	4,15	4,15	4,15	Open door: +2,0kW Steam generator (10/13): +0,75kW Steam generator (17/20): +1,4kW			
Sound Power Level	(dBA)	76.7	79.6	75	75.8				
Weight	(kg)	810	900	1060	1180	Steam generator 150 kg			
Usable Space (WxHxL)	(mm)	660 x 660 x 1,000	660 x 660 x 1,300	660 x 660 x 1,700	660 x 660 x 2,000				
Intake Dimension (WxHxL)****	(mm)	1,435 x 1,980 x 1,350	1,435 x 1,980 x 1,650	1,435 x 1,980 x 1,700	1,435 x 1,980 x 2,350	Sideways installed cabinet box W=1075			
<b>Electrical Data, required supply fuse (A/D)</b>									
220V 3P/50Hz	(A)	20	20	25	25	IT, TN-C or TN-S system (in case of TN-S system, please follow the instructions in Installation Manual)			
220V 3P/60Hz	(A)	20	20	25	25				
230V 3P/50Hz	(A)	16	16	25	25				
230V 3P/60Hz	(A)	20	20	25	25				
380V 3P/50Hz	(A)	16	16	16	16				
380V 3P/60Hz	(A)	16	16	16	16				
400V 3P/50Hz	(A)	16	16	16	16				
400V 3P/60Hz	(A)	16	16	16	16				
415V 3P/50Hz	(A)	16	16	16	16				
415V 3P/60Hz	(A)	16	16	16	16				
Power Consumption	(kWh)	0,7	0,8	1,3	1,5				
<b>Integrated Electrical Steam Generator</b>									
220V 3P/50Hz	(A)	125	125	-	-	IT, TN-C or TN-S system (in case of TN-S system, please follow the instructions in Installation Manual)			
220V 3P/60Hz	(A)	125	125	-	-				
230V 3P/50Hz	(A)	125	125	-	-				
230V 3P/60Hz	(A)	125	125	-	-				
380V 3P/50Hz	(A)	100	100	125	125				
380V 3P/60Hz	(A)	100	100	125	125				
400V 3P/50Hz	(A)	100	100	125	125				
400V 3P/60Hz	(A)	100	100	125	125				
415V 3P/50Hz	(A)	100	100	125	125				
415V 3P/60Hz	(A)	100	100	125	125				
Power Consumption	(kWh)	11,7	17,4	18,4	20,4				
<b>Notes</b>									
Coldest spot in chamber is 80 mm below chamber floor									
Environmental classification is class A according to EN 61326 (2014/30/EU(EMC))									
Please refer to the sterilizer installation manual and sterilizer installation drawing before installing the equipment									
* Values for consumption according to EN 285-23.4 (7,5 kg 100% cotton per ste) and process 134" - 4 min									
** To comply with EN 285 a vacuum depth <70mbar shall be reached (thus water temperature may be =15°C)									
*** Total thermal power is service area + front door closed or opened + steam generator if applicable									
**** The intake width is possible to changes temporarily to 900 mm									