

**Operating Instructions – Autoclave (Systec)**

According to Occupational Health and Safety Regulation

**Work space: SupraFAB**

**Work station: Room 114.2/ 115.3**

**Hazards for people and the environment**



Danger from burning on hot surfaces!

Risk of bottles bursting due to boiling distortion after liquid sterilization when opening or moving the stainless steel containers!

Danger due to hot water vapor escaping!

Damage to health due to incorrect lifting, lowering or carrying of loads during loading and unloading

**Protective measures and rules of behaviour**



During liquid sterilization, the chamber door (lid opening) only opens below a temperature of 80°C. The temperature sensor must therefore be placed in a reference bottle with at least the same fill level. Autoclaves (pressure vessels) may only be operated by trained scullery staff or persons instructed by the manufacturer.

When loading the autoclave, a distinction is made between waste sterilization for disposal (solid waste, media waste) and sterile goods for supply (laboratory supplies, solutions).

Liquid and solid autoclaving material must not be mixed in an autoclaving batch, neither within an autoclaving container nor in different autoclaving containers in the sterilization chamber.

Containers for liquids must not be tightly closed.



In liquid sterilization, the chamber door (lid opening) only opens below a temperature of 80°C. The temperature sensor must therefore be placed in a reference bottle with at least the same fill level. If the reference bottle is too full, the autoclaving time will be unnecessarily prolonged. If the reference bottle is filled to too low a level, the autoclave load may remain unsterile. There is a risk of the bottles to be sterilized bursting due to boiling delay.

Before starting, check that the correct sterilization program has been selected, e.g. solid program or liquid program (see manual).

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Thermal gloves and safety goggles must be worn when opening and unloading the autoclaving chamber after the sterilization process has been completed.

**Behaviour in case of danger**



Inform the person responsible for the area immediately in the event of faults! Switch off the machine!

**In case of fire: Keep calm!**

**Call the fire department on 112! Inform the central control room on 55112!**

Warn employees!

Fight the fire with a CO2 extinguisher! Pay attention to self protection!

**First aid**




Inform first aiders (see alarm plan). Treat minor injuries immediately and enter them in the first aid book.

In the event of more serious injuries, consult a general practitioner or call an emergency doctor.

Inform the workshop management.

Rescue service: **112**

<b>Operating Instructions Autoclave Systemc</b>	Building: SupraFAB	 <b>FREIE UNIVERSITÄT BERLIN</b>
	Area of application: Freie Universität Berlin Altensteinstraße 23a	

### Disposal -Service

Inspection and maintenance work may only be carried out by suitable persons!  
Autoclaves must be inspected annually by an expert. Further inspections must be carried out every three years (pressure vessel inspection, etc.) Years are mentioned on the autoclaves. All work must be documented.

**For further questions, please contact the Occupational Safety department  
Tel.: -54495**

Date and Signature of the division manager: