

Information to**Model HGS 133**

Autoclave,	
Chamber volume:	133 litres
Chamber dimensions (mm):	500 Ø x 680 H
External dimensions (mm):	686B x 1034T x 870H
Working temperature:	105° C – 135° C
Max. Chamber pressure:	2,5 bar
Power:	7,1 KW
Power supply:	400 Volt/50Hz/3phases
Net weight:	161kg
Capacity baskets	2-3

**Description and technical information:****Contained in the base price:**

Fully automatic microprocessor controlled
12 installed programs
Timer-controlled night program - overnight sterilization does not heat up the laboratory
AGAR program with thermostatic heating for AGAR Production
Liquid program with removal temperature of 60- 95°C
Solid Program for glasses and instruments
Steam generator
Water-cooling
Automatic water supply
Small feed water consumption
Electronic pressure switch, pressure and temperature control
Exhaust bottle for condensation , this prevents fogging and unpleasant odours
Drain valve for easy cleaning of sterilization chamber
Bottom plate for baskets and cans
RS 232 Interface for connection to PC
Lid-opening and lid-closing by pressing a bottom
On wheels - cleaning is possible even under the autoclave

Safety:

Safety valve
Pressure control of max. pressure
Limiter for max. chamber temperature
Safety sensor for heating elements
Approval by TÜV Bayern e.V.
CE-mark

Chamber and basics:

Lid with fast locking device and pressure are made from stainless steel (SUS 304). For easy cleaning the chamber is polished. The housing is powder coated and also easy to clean. Additionally heat protection under the lid handle. The main switch is built-in and is protected by unintentional using. Two recessed handles facilitate easy manipulation.

The feed-water-level is controlled and low water level is indicated. For protection of heating elements the autoclave cannot be started without enough water. An optional feed water connection automatically controls the water level. The exhaust steam condenser cools steam and condensate. This prevents fogging of instruments and unpleasant odours.

The central quick lock can be actuated with one finger touch. An optional thermo lock with sterilization time control prevents hazards to the laboratory staff by delayed boiling.
The lid remains closed until overpressure inside of sterilization chamber.
The heat resistant plastic cover protects for touching of hot parts.
The lid gasket is a part of the lid, swings towards the top away and cannot be damaged by baskets or similar things. There is space for 2 baskets inside.

Full automatic microprocessor controlled

There are 12 installed sterilization programs available (according equipment):

- Liquid program including warming program
- Liquid program without warming program
- Liquid program with fast recooling
- Liquid program with fast recooling and warming program
- Solid sterilization
- AGAR program

Sterilization temperature and –time can be easily changed before sterilization start. The steam exhaust (cooling time) is adjustable, for sterilization of sensitive media.

Timer controlled sterilisation start (overnight program). This offers an additionally sterilisation. With this program it is possible to have a ready-to-use AGAR in the morning

Flexible area code of the ventilation time – so also Durham small tubes can be sterilized.

The program works from start to end of sterilisation full automatically. The temperature is controlled either direct inside liquids (flexible temperature sensor, optional) or inside the chamber.

The process is temperature controlled and for shortening of heating-up-time additionally pressure controlled. This offers low power consumption and fast process time.

Air-cooling

Fast recooling of liquids and media, cooling by strong ventilator, timesaving up to 40% against self cooling, no water connection, no supporting pressure necessary, recommended for frequent sterilisation

Built-in

Autoclave HG 133

Article Nr. 21003

Accessories

Exhaust air filter

sterilisation of exhaust air, when sterilizing high infectious materials

During the venting phase the non-sterile residual air in the autoclave will be pressed out from the steam. The steam-air- mixture is contaminated by (infected) germs. As the sterilisation conditions in the heating phase are not yet sufficient, this air-mixture must be sterile filtrated. The high flow bio X Filtercartridge (validated on MS II Coliphagen and Beuvindimonas Diminuta!) has got retention down to 0,01 micron, is installed in a separate steal case which will be sterilized with each charge. So the Filter can be changed without risk.

Article Nr. 51011

Flexible temperature sensor

for point started sterilisation time by media temperature

media temperature control with flexible temperature sensor

with opening temperatures of

95°C (open vessels), 90°C (closed plastic vessels), 80 °C (pressure tight closed glass bottles)

Sensor cable s=4mm

precision $\pm 0,2^{\circ}\text{C}$

Article Nr. 51001

Process documentation SEGOSOFT®

Software for safety and easy documentation of all relevant sterilisation-data,
CD ROM License for one device

Stainless steel sterilizing basket "A" HG 113/133 small

Electro polished wire mesh basket, outside dimension Ø475 x 221mm H
Inner dimension Ø475 x 215mm. With collecting dish. Capacity HG113: 2 baskets

Best.-Nr. 51024

Basket with collecting dish "A" HG 113/133 small

Electro polished wire mesh basket, outside dimension Ø475 x 221mm H
Inner dimension Ø475 x 215mm. Capacity HG113: 2 baskets

Best.-Nr. 51024

Stainless steel sterilizing basket "B" HG 113/133 middle

Electro polished wire mesh basket, outside dimension Ø475 x 275mm H
Inner dimension Ø475 x 269mm. Capacity HG113: 2 baskets

Best.-Nr. 51025

Basket with collecting dish "B" HG 113/133 middle

Electro polished wire mesh basket, outside dimension Ø475 x 275mm H
Inner dimension Ø475 x 269mm. Capacity HG113: 2 baskets. With collecting dish

Best.-Nr. 51027

Stainless steel sterilizing basket "C" HG 113/133 big

Electro polished wire mesh basket, outside dimension Ø475 x 325mm H
Inner dimension Ø475 x 319mm. Capacity HG113: 1 basket

Best.-Nr. 51031

Basket with closed bottom "C" HG 113/133 big

Electro polished wire mesh basket, outside dimension Ø475 x 325mm H
Inner dimension Ø475 x 319mm. Capacity HG113: 1 basket. With collecting dish

Best.-Nr. 51033

Information to**Model HGS 113**

Autoclave,	
Chamber volume:	113 litres
Chamber dimensions (mm):	500 Ø x 576 H
External dimensions (mm):	686B x 930T x 870H
Working temperature:	105 C – 135° C
Max. Chamber pressure:	2,5 bar
Power:	6,8 KW
Power supply:	400 Volt/50Hz/3phases
Net weight:	153kg
Capacity baskets	2

**Description and technical information:****Contained in the base price:**

Fully automatic microprocessor controlled
12 installed programs
Timer-controlled night program - overnight sterilization does not heat up the laboratory
AGAR program with thermostatic heating for AGAR Production
Liquid program with removal temperature of 60- 95°C
Solid Program for glasses and instruments
Steam generator
Water-cooling
Automatic water supply
Small feed water consumption
Electronic pressure switch, pressure and temperature control
Exhaust bottle for condensation , this prevents fogging and unpleasant odours
Drain valve for easy cleaning of sterilization chamber
Bottom plate for baskets and cans
RS 232 Interface for connection to PC
Lid-opening and lid-closing by pressing a bottom
On wheels - cleaning is possible even under the autoclave

Safety:

Safety valve
Pressure control of max. pressure
Limiter for max. chamber temperature
Safety sensor for heating elements
Approval by TÜV Bayern e.V.
CE-mark

Chamber and basics:

Lid with fast locking device and pressure are made from stainless steel (SUS 304). For easy cleaning the chamber is polished. The housing is powder coated and also easy to clean. Additionally heat protection under the lid handle. The main switch is built-in and is protected by unintentional using. Two recessed handles facilitate easy manipulation.

The feed-water-level is controlled and low water level is indicated. For protection of heating elements the autoclave cannot be started without enough water. An optional feed water connection automatically controls the water level. The exhaust steam condenser cools steam and condensate. This prevents fogging of instruments and unpleasant odours.

The central quick lock can be actuated with one finger touch. An optional thermo lock with sterilization time control prevents hazards to the laboratory staff by delayed boiling.
The lid remains closed until overpressure inside of sterilization chamber.
The heat resistant plastic cover protects for touching of hot parts.
The lid gasket is a part of the lid, swings towards the top away and cannot be damaged by baskets or similar things. There is space for 2 baskets inside.

Full automatic microprocessor controlled

There are 12 installed sterilization programs available (according equipment):

Liquid program including warming program
Liquid program without warming program
Liquid program with fast recooling
Liquid program with fast recooling and warming program
Solid sterilization
AGAR program

Sterilization temperature and –time can be easily changed before sterilization start. The steam exhaust (cooling time) is adjustable, for sterilization of sensitive media.

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Flexible area code of the ventilation time – so also Durham small tubes can be sterilized.

The program works from start to end of sterilisation full automatically. The temperature is controlled either direct inside liquids (flexible temperature sensor, optional) or inside the chamber.

The process is temperature controlled and for shortening of heating-up-time additionally pressure controlled. This offers low power consumption and fast process time.

Air-cooling

Fast recooling of liquids and media, cooling by strong ventilator, timesaving up to 40% against self cooling, no water connection, no supporting pressure necessary, recommended for frequent sterilisation

Built-in

Autoclave HG 133

Article Nr. 21003

Accessories

Exhaust air filter

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Basket with collecting dish "A" HG 113/133 small

Electro polished wire mesh basket, outside dimension Ø475 x 221mm H
Inner dimension Ø475 x 215mm. Capacity HG113: 2 baskets

Best.-Nr. 51024

Stainless steel sterilizing basket "B" HG 113/133 middle

Electro polished wire mesh basket, outside dimension Ø475 x 275mm H
Inner dimension Ø475 x 269mm. Capacity HG113: 2 baskets

Best.-Nr. 51025

Basket with collecting dish "B" HG 113/133 middle

Electro polished wire mesh basket, outside dimension Ø475 x 275mm H
Inner dimension Ø475 x 269mm. Capacity HG113: 2 baskets. With collecting dish

Best.-Nr. 51027

Stainless steel sterilizing basket "C" HG 113/133 big

Electro polished wire mesh basket, outside dimension Ø475 x 325mm H
Inner dimension Ø475 x 319mm. Capacity HG113: 1 basket

Best.-Nr. 51031

Basket with closed bottom "C" HG 113/133 big

Electro polished wire mesh basket, outside dimension Ø475 x 325mm H
Inner dimension Ø475 x 319mm. Capacity HG113: 1 basket. With collecting dish

Best.-Nr. 51033