

Information to

Model HG 50

Autoclave,	
Chamber volume:	50 Litre
Chamber dimensions (mm):	364 Ø x 482 H
Loading high:	750 mm
External dimensions (mm):	455B x 691T x 890H
Working temperature:	105° C – 135° C
Max. Chamber pressure:	2,5 bar
Power:	2,0 kW
Power supply:	230 Volt/50-60Hz
Net weight:	62kg
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 95°C
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
air-cooling by pressing a bottom usable
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.

Loading high is only 750mm without edges and eyelet at which baskets can hang remain. The central quick lock can be actuated with one finger touch. An optional thermo lock with sterilization time control prevent 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

Article Nr. 210010

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 Beuvundimonas 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

Article Nr. 51014

Stainless steel sterilizing basket HG 50/80

electro polished wire mesh basket, dimension Ø 338 x 220 H
Capacity HG 50: 2 baskets

Article Nr. 51009

Electropolished wire mesh basket for HG 50/80 with bottom,
dimension Ø338mm x 220mm H, with integrated reception dish

Article Nr. 51010

Stainless steel sterilizing basket HG 80

electro polished wire mesh basket, dimension Ø 338mm x 210mm H

Article Nr. 51019

Stainless steel sterilizing basket HG 80 with bottom

dimension Ø 330mm x 310mm H with integrated reception dish

Article Nr. 51023

Stainless steel sterilizing basket long with bottom

dimension Ø 325mm x 450mm H with integrated reception dish

Article Nr. 51023

Stainless steel sterilizing can for HG 50/80

electro polished stainless steel can Dim. Ø 330mm x 185mm H,

Article Nr. 51007

Stainless steel sterilizing can for HG 50/80

electro polished stainless steel can Dim. Ø 330mm x 185mm H, without holes

Article Nr. 51008

Freight and Package, Free German border HG 50

behind first lockable door, with package

Article Nr. 21300

Information to

Model HG 80

Autoclave,
Chamber volume: 80 Litre
Chamber dimensions (mm): 364 Ø x 730 H
External dimensions (mm): 455B x 691T x 1030H
Working temperature: 105° C – 135° C
Max. Chamber pressure: 2,5 bar
Power: 3,7 KW
Power supply: 230 Volt/50-60Hz
Net weight: 73kg
Capacity baskets 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 95°C
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
Air-cooling by pressing a bottom usable
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.

Loading high is only 750mm without edges and eyelet at which baskets can hang remain. The central quick lock can be actuated with one finger touch. An optional thermo lock with sterilization time control prevent 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 3 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

Article Nr. 21002

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 Beuvundimonas 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

Article Nr. 51014

Stainless steel sterilizing basket HG 50/80

electro polished wire mesh basket, dimension Ø 338 x 220 H

Capacity HG 80: 3 baskets

Article Nr. 51009

Electro polished wire mesh basket for HG 50/80 with bottom,

dimension Ø338mm x 220mm H, with integrated reception dish

Article Nr. 51010

Stainless steel sterilizing basket HG 80

electro polished wire mesh basket, dimension Ø 338mm x 210mm H

Article Nr. 51019

Stainless steel sterilizing basket HG 80 with bottom

dimension Ø 330mm x 310mm H with integrated reception dish

Article Nr. 51023

Stainless steel sterilizing basket long with bottom

dimension Ø 325mm x 450mm H with integrated reception dish

Article Nr. 51023

Stainless steel sterilizing can for HG 50/80

electro polished stainless steel can Dim. Ø 330mm x 185mm H,

Article Nr. 51007

Stainless steel sterilizing can for HG 50/80

electro polished stainless steel can Dim. Ø 330mm x 185mm H, without holes

Article Nr. 51008

Freight and Package, Free German border HG 50

behind first lockable door, with package

Article Nr. 21300

Freight and Package, Free German border HG 50

behind first lockable door, with package

Article Nr. 21300

Information to

Model HG 113

Autoclave

Chamber volume (nominal):	131,7 litre
Chamber volume (effective):	108 litre
Chamber dimensions (mm):	500 Ø x 552 H
External dimensions (mm):	686B x 930T x 939H
Working temperature:	105° C – 135° C
Max. Chamber pressure:	2,5 bar
Power:	5,7 KW
Power supply:	400 Volt/50-60Hz/3phases
Net weight:	137kg
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
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
Air-cooling by pressing a bottom usable
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 max. 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 113

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 Beuvundimonas 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 HG 133**

Autoclave,
Chamber volume (nominal): 152 litre
Chamber volume (effective): 129 litre
Chamber dimensions (mm): 500 Ø x 656 H
External dimensions (mm): 686B x 1034T x 870H
Working temperature: 105° C – 135° C
Max. Chamber pressure: 2,5 bar
Power: 5,7 KW
Power supply: 400 Volt/50-60Hz/3phases
Net weight: 137kg
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
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
Air-cooling by pressing a bottom usable
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 prevent 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 Beuvundimonas 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

Note: Service card with further cost necessary

Article Nr. 51014**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 collecting dish "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 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 Beuvundimonas 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.

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 Beuvundimonas 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

Informationen zu**Modell HGS 133**

Dampfsterilisator,
Kammervolumen:
Total/nominal 150/133 Liter
Kammermaße (mm): 500 Ø x 680 H
Außenmaße (mm): 686B x 870Tx1034H
Arbeitstemperatur 105° C – 135° C
Max. Kammerdruck 2,5 bar
Leistung: 7,1 KW
Spannung: 400 Volt/50Hz/3Phasen
Nettogewicht: 161 kg
Kapazität Körbe: 2-3

**Beschreibung und technische Daten:****Im Basispreis enthalten:**

Separater Dampfgenerator
Automatische Wassereinspeisung
Vollautomatische Mikroprozessorsteuerung
12 vorgelegte Programme
Timergesteuertes Nachtprogramm – durch Übernachtsterilisation bleibt tagsüber der Raum kühl
AGAR Programm mit Nachwärme zur einfacheren Verarbeitung des AGAR's
Textilprogramm inklusiv Trocknung
Vorheizung
Flüssigkeitsprogramm mit Entnahmetemperatur 60-95°C vorwählbar
Feststoffprogramm für Glas und Instrumente
Dampftopffunktion
USB Anschluss
Dataport
Wasserkühlung

Sicherheitselemente: Sterilisierparameter nach Programmstart nicht veränderbar

Sicherheitsventil TÜV geprüft
Drucküberwachung des max. Druckes
automatische Türverriegelung, sensorüberwacht und durch Federkraft limitiert.
Einklemmen u. Verletzen der Hände nicht möglich
Sicherheitsthermostat für Nutzraum und für Heizelemente
Verlaufsanzeige, großes beleuchtetes Display
Elektronischer Druckaufnehmer, Druck- und Temperaturregelung
Kondensatablaufschiene – kaum Dampf und Geruchsbelästigung
Entleerungsventil zur leichten Reinigung der Sterilisierkammer
Sammelanschluss für Austrittsleitungen

Grundgerät

Bodenblech zur Ablage von Körben und Gefäßen
Laufrollen – Bodenreinigung auch unter dem Sterilisator möglich
Deckelöffnung und Deckelverriegelung auf Knopfdruck
mit separatem Dampfgenerator und autom. Wassereinspeisung, Wasserkühlung, Vorheizung,
Kammer-, Automatikstart, 12 veränderbare Programme; max. Temperatur 105 - 135°C; Luftkühlung
integriert, RS232 Schnittstelle integriert, , 400 Volt, 3 Phasen 8,4 KW, Kapazität 2 Körbe, Heizelemente
in Sterilisierkammer
Abnahme durch TÜV Bayern, CE Zeichen

Verschluss und Druckbehälter sind aus rostfreien, hochlegierten Chrom-Nickel-Edelstahl (V2A)
gefertigt. Der Innenraum ist zur leichten Reinigung electropoliert. Die Verkleidung ist pulverbeschichtet
und leicht zu reinigen. Der Hauptschalter ist zurückgesetzt eingebaut und vor unabsichtlicher
Betätigung geschützt.

Das Speisewasserniveau wird überwacht und Wassermangel angezeigt.
Zum Schutz der Heizstäbe kann das Gerät nicht gestartet werden, wenn ein Mindestwasserstand unterschritten wird. Eine automatische Wassereinspeisung (als Option) regelt das Speisewasserniveau selbsttätig.

Der serienmäßige Abdampfkondensator kühlt und kondensiert den Abdampf.
Der Kondensatauffangbehälter hat eine Füllstandsanzeige im Display und kann bequem entleert werden. Geruchbelästigungen und Überhitzungen von Kunststoffabwasserrohren werden vermieden.
Beschickungshöhe nur 750mm ohne Kanten und Ösen an denen Körbe hängen bleiben können.

Der Zentrale Schnellverschluss öffnet und schließt auf Knopfdruck. Dabei wird der Verschluss mit 6 Bolzen verriegelt. Als Option gibt es eine Thermosperre (nach TRB 402 bzw. DIN 61010-2) für die Flüssigkeitssterilisation, die den Verschluss erst freigibt, wenn eine gefahrlose Entnahme (Siedeverzug) der Flüssigkeiten gewährleistet ist.

Der Deckel bleibt verschlossen, solange ein Überdruck im Nutzraum ist.

Die hitzebeständige Kunststoffverkleidung schützt vor Kontakt mit heißen Teilen. Verletzungen werden dadurch vermieden. Die Tür ist hinten angeschlagen, öffnet also nach hinten und stößt nicht durch hervorstehende Teile. Die Deckeldichtung ist Teil des Deckels, schwenkt nach oben weg und kann durch Körbe oder ähnliches nicht beschädigt werden.

Es passen max 3 Körbe („A“) in den Nutzraum.

Vollautomatische Mikroprozessorsteuerung mit Nachwärmeprogramm

Es stehen 12 vorbelegte Sterilisationsprogramme zur Verfügung.

Flüssigkeitsprogramm mit Nachwärmezyklus

Flüssigkeitsprogramm ohne Nachwärmeprogramm

Feststoffprogramm für Glas und Instrumente

AGAR Programm (Dampftopfprogramm zum Schmelzen und Warmhalten von AGAR

Sterilisiertemperatur und Sterilisierzeit können vor Programmstart problemlos angepasst werden.
Die Abkühlgeschwindigkeit ist einstellbar. Damit können auch siedeempfindliche Medien sterilisiert werden

Timergesteuerter Sterilisationsstart (Nachtprogramm). Damit ist ein zusätzlicher Lauf möglich und es steht beispielsweise zum Tagesbeginn sterilisierter, gießfertiger AGAR zur Verfügung.

Durch das Nachwärmeprogramm sind Verzögerungen oder Arbeitsunterbrechungen problemlos, AGAR kühlt nicht aus.

Flexible Vorwahl der Entlüftungszeit - so können auch Durham Röhrchen problemlos sterilisiert werden.

Der Programmablauf ist vollautomatisch.

Die Temperatur wird entweder im Sterilisiergut (mit flexiblem Temperaturfühler, Option) gemessen oder in der Kammer. Die Regelung erfolgt temperaturüberwacht und - zur Verkürzung der Aufheizzeit – druckoptimiert.

Somit erreicht man mit niedrigem Energieeinsatz schnellere Chargenzeiten.

Dampfterilisateur HGS 133

Best.-Nr. 21006

Zubehör:

Sterilluft-Filtersystem

Sterilisation der Abluft bei infektiösen Materialien

Während der Entlüftungsphase (Aufheizen) wird die Luft im Sterilisator durch den entstehenden Dampf verdrängt. Das Dampf-Luft-Gemisch ist durch (infektiöse) Keime belastet. Da in der Aufheizphase noch keine ausreichenden Sterilisationsbedingungen herrschen, muss dieses austretende Dampf-Luft-Gemisch steril filtriert werden

Der High Flow BioX Filter (validiert auf MS II Coliphagen und *Bevundimonas Diminuta*!) hat eine Rückhalterate von 0,1µm, befindet sich in einem separaten Edelstahlgehäuse und wird bei jeder Charge mitsterilisiert. Damit ist ein gefahrloser Filterwechsel gewährleistet.

Bei Installation des Abluftfilters wird eine Aufstelltiefe von 870 mm benötigt

Best.-Nr. 51011

Flexibler Temperaturfühler

zur punktgenauen Sterilisierzeitauslösung über die Medientemperatur

Thermosperre nach TRB 402 und DIN 61010-2

mit Öffnungstemperaturen von

95°C (offene Gefäße), 90°C (geschlossene Kunststoffgefäße), 80°C (druckdicht verschlossene Glasflaschen)

Fühlerkabel, s=4mm armiert

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

Best.-Nr. 51001

Prozessdokumentation SEGOSOFT®

Software zur sicheren und bequemen Dokumentation aller relevanten Sterilisierdaten, Schnittstelle, CD ROM, Lizenz für 1 Gerät

Best.-Nr. 51014

Automatische Wassereinspeisung

Prüft vor Programmstart das Speisewasserniveau und füllt bei Bedarf das Gerät automatisch auf (aus Vorratstank oder VE-Wasserleitung)

Best.-Nr. 51012

Korb A HG 113/133 klein

aus elektropoliertem, rostfreien Edelstahl, Aussendurchmesser Ø475 x 221mm Höhe, Innendurchmesser Ø475 x 215mm Höhe

Best.-Nr. 51024

Korb/Schale A HG 113/133 klein

aus elektropoliertem, rostfreien Edelstahl, Aussendurchmesser Ø475 x 221mm Höhe, Innendurchmesser Ø475 x 215mm Höhe mit integrierter Auffangschale, preisgünstige Lösung um Verschmutzung des Speisewassers zu vermeiden.

Best.-Nr. 51024

Korb B HG 113/133 mittel

aus elektropoliertem, rostfreien Edelstahl, Aussendurchm. Ø 480 x 275mm, Innendurchm. Ø475 x 269mm Höhe, aus elektropoliertem rostfreien Edelstahl,

Best.-Nr. 51025

Korb/Schale B HG 113/133 mittel

aus elektropoliertem, rostfreien Edelstahl, Aussendurchm. Ø 480 x 275mm, Innendurchm. Ø475 x 269mm Höhe, aus elektropoliertem rostfreien Edelstahl, mit integrierter Auffangschale, preisgünstige Lösung um Verschmutzung des Speisewassers zu vermeiden

Best.-Nr. 51027

Korb C HG 113/133 groß

aus elektropoliertem, rostfreien Edelstahl, Aussendurchm. Ø 480 x 325mm, Innendurchmesser Ø475 x 319mm Höhe, aus elektropoliertem rostfreien Edelstahl,

Best.-Nr. 51031

Korb/Schale C HG 113/133 groß

aus

elektropoliertem, rostfreien Edelstahl, Aussendurchm. Ø 480 x 325mm, Innendurchmesser Ø475 x 319mm Höhe, aus elektropoliertem rostfreien Edelstahl, mit integrierter Auffangschale, preisgünstige Lösung um Verschmutzung des Speisewassers zu vermeiden

Best.-Nr. 51033

Information to**Model HGD 113**

Autoclave,
Chamber volume total/effective: 132,9/113 litre
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/50-60Hz/3 phases
Net weight: 184kg
Capacity baskets 2

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

Separate steam generator
Vacuum function: Pre- and Drying vacuum
Fully automatic microprocessor controlled
12 installed programs, special programs adjustable
Timer-controlled night program - overnight sterilization does not heat up the laboratory
AGAR program with thermostatic heating for AGAR Production
Drying program with vacuum and chamber warming
Liquid program with removal temperature of 60- 95°C
Solid Program for glasses and instruments
Steam pot program
USB Connection,
Water cooling system
Automatically water supply
Lid-opening and lid-closing by pressing a bottom
On wheels - cleaning is possible even under the autoclave

Safety:

Sterilisation parameters can't be changed after starting the program run
Safety valve TUV proofed
Automatically door locking, sensor controlled and spring tension limited
Limiter for max. chamber temperature
Course announcement, big illuminated display
Collective connection for resignation administrations
Bottom plate to ground baskets and vessels
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 prevent 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):

- 3 Programs for Liquid sterilisation
- 3 Programs for Solid sterilisation
- 3 Programs for textile (Fabrics) sterilisation (vacuum function)
- 3 AGAR programs

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.

Autoclave HG 113 Article Nr. 21007

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 Filter cartridge (validated on MS II Coliphagen and Beuvundimonas 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

Note: Service card with further costs is necessary

Article Nr. 51014**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 collecting dish "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 HGD 133**

Autoclave,
Chamber volume total/effective: 153/133 litre
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: 192kg
Capacity baskets 2

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

Separate steam generator
Vacuum function: Pre- and Drying vacuum
Fully automatic microprocessor controlled
12 installed programs, special programs adjustable
Timer-controlled night program - overnight sterilization does not heat up the laboratory
AGAR program with thermostatic heating for AGAR Production
Drying program with vacuum and chamber warming
Liquid program with removal temperature of 60- 95°C
Solid Program for glasses and instruments
Steam pot program
USB Connection,
Automatically water supply
Water cooling
Lid-opening and lid-closing by pressing a bottom
On wheels - cleaning is possible even under the autoclave

Safety:

Sterilisation parameters can't be changed after starting the program run
Safety valve TUV proofed
Automatically door locking, sensor controlled and spring tension limited
Limiter for max. chamber temperature
Course announcement, big illuminated display
Collective connection for resignation administrations
Bottomplate to ground baskets and vessels
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 prevent 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 max 3 baskets "A"2 inside .

Full automatic microprocessor controlled

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

- 3 Programs for Liquid sterilisation
- 3 Programs for Solid sterilisation
- 3 Programs for textile (Fabrics) sterilisation (vacuum function)
- 3 AGAR programs

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.

Autoclave HGD 133 Article Nr. 21008

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 Filter cartridge (validated on MS II Coliphagen and Beuvundimonas 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

Note: Service card with further costs is necessary

Article Nr. 51014**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 collecting dish "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