

Information about

Autoclave HV-L 25

Steamsterilizer

Chamber volume 25 litres

Chamber dimensions (mm): 240 Ø x 550 H

External dimensions (mm) : 480B x 950H x 460T

Temperature : 105°C – 126°C

Max. Chamber pressure: 1,4 bar

Power: 1,5 KW

Power supply: 230V/50Hz

Net weight: 41 kg



Description and technical information

Contained in the base price:

Fully automatic microprocessor controlled
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 (max. 1litre /cycle)

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
on wheels - cleaning is possible even under the autoclave
prepared for printer connection
prepared for air-cooling

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 feedwaterlevel 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.



HMC Europe GmbH

Labor- und Sterilisationstechnik

Kellerstr. 1 D84577 Tüßling Tel.:08633-50 54 205 Fax:08633-50 54 210 email:info@HMC-Europe.com www.HMC-Europe.com

The central quick lock can be actuated with one finger. 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 hinge is on the back. The lid opens to the back there are no disturbing parts in front of autoclave. The lid weight is balanced by a maintenance free torsion spring.

Full automatic mikroprozessorcontrolled

4-6 full automatic sterilizations 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 (overnightprogramm). This offers an additionally sterilisation. With this program it is possible to have a ready-to-use AGAR in the morning

The program work 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.

Article Nr. 20000

Aircooling RL

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

Article Nr. 50002

GLP set

Set including printer for recording sterilisation (data's, temperature and time) and exhaust air filter for sterilizing high infectious materials, In-line-sterilisation of cartridge

Article Nr. 50021

PT 100 temperature sensor for

necessary for Software HMC-Sego®

Article Nr. 50005

Software HMC-Sego®

Documentation Software. CD ROM

Article Nr. 50031

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



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0,01 micron, is installed in a separate steel case which will be sterilized with each charge. So the Filter can be changed without risk.

Article Nr. 50004

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 bottle)

Sensor cable s=4mm

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

Article Nr. 50001

Batch printer

batch printer for direct recording of sterilisation data's, temperature and time

Article Nr. 50003

Stainless steel sterilizing basket HV-L 25

electro polished wire mesh basket, dimension Ø 225 x 260 H

Article Nr. 50006

Electropolished wire mesh basket for HV-L 25, with bottom

dimension Ø225 x 260 H, with integrated reception dish

Article Nr. 50027

Stainless steel sterilizing can for HV-L25

electro polished stainless steel can Dim. Ø 225 x 260 H

Article Nr. 50010

Freight and Package, Free German border HV-L 25

behind first lockable door, with package

Article Nr. 21100

Packing, Freight Carriage, Set-up and Start-up HV-L 25

Packing, Freight Carriage free German border, Set-up and Start-up , all included

Article Nr. 21200

Autoclave HV-L 50

Steamsterilizer

Chamber volume	50 litres
Chamber dimensions (mm):	300 Ø x 710 H
External dimensions (mm) :	540B x 1.040H x 530T
Temperature :	105° C – 135° C
Max. Chamber pressure:	2,2 bar
Power:	2,0 KW
Power supply:	230V/50Hz
Net weight:	57 kg



Description and technical information

Contained in the base price:

Fully automatic microprocessor controlled
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 (max. 1litre /cycle)

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
on wheels - cleaning is possible even under the autoclave
prepared for printer connection
prepared for air-cooling

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. 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.



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The heat resistant plastic cover protects for touching of hot parts.

The lid hinge is on the back. The lid opens to the back there are no disturbing parts in front of autoclave. The lid weight is balanced by an maintenance free torsion spring.

Full automatic microprocessor controlled

4-6 full automatic 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 (overnightprogramm). This offers an additionally sterilisation. With this program it is possible to have a ready-to-use AGAR in the morning

The program work 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.

Article Nr. 20001

Aircooling RL

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

Article Nr. 50002

GLP set

Set including printer for recording sterilisation (data's, temperature and time) and exhaust air filter for sterilizing high infectious materials, In-line-sterilisation of cartridge

Article Nr. 50021

PT 100 temperature sensor for

necessary for Software HMC-Sego®

Article Nr. 50005

Software HMC-Sego®

Documentation Software. CD ROM

Article Nr. 50031

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



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0,01 micron, is installed in a separate steel case which will be sterilized with each charge. So the Filter can be changed without risk.

Article Nr. 50004

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. 50001

Batch printer

batch printer for direct recording of sterilisation data's, temperature and time

Article Nr. 50003

Stainless steel sterilizing basket HV-L 50

electro polished wire mesh basket, dimension Ø 280 x 225 H

Article Nr. 50007

Electropolished wire mesh basket for HV-L 50 with bottom,

dimension Ø280 x 225 H, with integrated reception dish

Article Nr. 50028

Stainless steel sterilizing can for HV-L50

electro polished stainless steel can Dim. Ø 280 x 220 H, two row of holes (lower third)

Article Nr. 50011

can with lid closed, little

Electropolished stainless steel can Dim. Ø 240 X 240 H, textile filter at bottom and lid

Article Nr. 50024

can with lid, closed, middle

Electropolished stainless steel can Dim. Ø 290 X 240 H, textile filter at bottom and lid

Article Nr. 50025

Freight and Package, Free German border HV-L50

behind first lockable door, with package

Article Nr. 22100

Packing, Freight Carriage, Set-up and Start-up HV-L 50

Packing, Freight Carriage free German border, Set-up and Start-up , all included

Article Nr. 22200

Autoclave HV-L 85

Steamsterilizer

Chamber volume	85 litres
Chamber dimensions (mm):	420 Ø x 615 H
External dimensions (mm) :	660B x 1.000H x 650T
Temperature :	105° C – 128° C
Max. Chamber pressure:	1,6 bar
Power:	3,0 KW
Power supply:	230V/50Hz
Net weight:	71 kg



Description and technical information

Contained in the base price:

Fully automatic microprocessor controlled
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 (max. 1litre /cycle)

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
on wheels - cleaning is possible even under the autoclave
prepared for printer connection
prepared for air-cooling

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.



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The central quick lock can be actuated with one finger. 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 hinge is on the back. The lid opens to the back there are no disturbing parts in front of autoclave. The lid weight is balanced by a maintenance free torsion spring.

Full automatic microprocessor controlled

4-6 full automatic sterilizations 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

The program works full automatically from start to end of sterilisation. 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.

Article Nr. 20002

Air cooling RL

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

Article Nr. 50002

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. 50004

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 bottle)

Sensor cable s=4mm

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

Article Nr. 50001



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Batch printer

batch printer for direct recording of sterilisation data's, temperature and time

Article Nr. 50003

GLP set

Set including printer for recording sterilisation (data's, temperature and time) and exhaust air filter for sterilizing high infectious materials, In-line-sterilisation of cartridge

Article Nr. 50021

Software HMC-Sego®

Documentation software. CD ROM

Article Nr. 50031

Stainless steel sterilizing basket HV-L 85

Electro polished wire mesh basket, dimension Ø 390 x 2900 H

Article Nr. 50008

Electropolished wire mesh basket for HV-L 85 with closed bottom,,

Dimension Ø390 x 290 H, with integrated reception dish

Article Nr. 50029

Stainless steel sterilizing can for HV-L85

Electro polished stainless steel can Dim. Ø 390 x 285 H, two row of holes (lower third)

Article Nr. 50012

Can with lid, closed, little

Electropolished stainless steal can Dim. Ø 240 X 240 H, textile filter at bottom and lid

Article Nr. 50024

Can with lid, closed, middle

Electropolished stainless steal can Dim. Ø 290 X 240 H, textile filter at bottom and lid

Article Nr. 50025

Can with lid, closed, big

Electropolished stainless steal can Dim. Ø 390 X 190 H, textile filter at bottom and lid

Article Nr. 50026

Automatic water supply unit

Checks the feed water level before starting the sterilisation cycle and fills up automatically to the required level (from supply tank or VE water supply)

Best.-Nr. 51012

Freight and Package, Free German border HV-L85

behind first lockable door, with package

Article Nr. 23100

Packing, Freight Carriage, Set-up and Start-up HV-L 85

Packing, Freight Carriage free German border, Set-up and Start-up, all included

Article Nr. 23200

Autoclave HV-L 110

Steamsterilizer

Chamber volume	110 litres
Chamber dimensions (mm):	420 Ø x 795 H
External dimensions (mm):	660B x 1.180H x 650T
Temperature:	105° C – 123° C
Max. Chamber pressure:	1,2 bar
Power:	4,0 KW
Power supply:	230 V/50Hz
Net weight:	81 kg



Description and technical information

Contained in the base price:

Fully automatic microprocessor controlled
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 (max. 1litre /cycle)

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
on wheels - cleaning is possible even under the autoclave
prepared for printer connection
prepared for air-cooling

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 feedwaterlevel 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. 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 hinge is on the back. The lid opens to the back there are no disturbing parts in front of autoclave. The lid weight is balanced by a maintenance free torsion spring.



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Full automatic microprocessor controlled

4-6 full automatic sterilizations 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

The program work 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.

Article Nr. 20003

Aircooling RL

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

Article Nr. 50002

GLP set

Set including printer for recording sterilisation (data's, temperature and time) and exhaust air filter for sterilizing high infectious materials, In-line-sterilisation of cartridge

Article Nr. 50021

Software HMC-Sego®

Documentation Software. CD ROM

Article Nr. 50031

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. 50004



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 bottle)
Sensor cable s=4mm
precision $\pm 0,2^{\circ}\text{C}$
Article Nr. 50001

GLP set

Set including printer for recording sterilisation (data's, temperature and time) and exhaust air filter for sterilizing high infectious materials, In-line-sterilisation of cartridge
Article Nr. 50021

Batch printer

batch printer for direct recording of sterilisation data's, temperature and time
Article Nr. 50003

Stainless steel sterilizing basket HV-L 110

electro polished wire mesh basket, dimension $\varnothing 390 \times 380 \text{ H}$
Article Nr. 50009

Electropolished wire mesh basket for HV-L 110 with closed bottom,

dimension $\varnothing 390 \times 380 \text{ H}$, with integrated reception dish
Article Nr. 50030

Stainless steel sterilizing can for HV-L110

electro polished stainless steel can Dim. $\varnothing 390 \times 375 \text{ H}$, two row of holes (lower third)
Article Nr. 50013

Stainless steel sterilizing can for HV-L85/110 without holes

Electropolished stainless steel can, External Dim. $\varnothing 390 \times 290 \text{ H}$, inside Dim. $\varnothing 353 \times 280 \text{ H}$, without holes, without lid
Article Nr. 50015M

can with lid closed, little

Electropolished stainless steal can Dim. $\varnothing 240 \times 240 \text{ H}$, textile filter at bottom and lid
Article Nr. 50024

can with lid, closed, middle

Electropolished stainless steal can Dim. $\varnothing 290 \times 240 \text{ H}$, textile filter at bottom and lid
Article Nr. 50025

can with lid, closed, big

Electropolished stainless steal can Dim. $\varnothing 390 \times 190 \text{ H}$, textile filter at bottom and lid
Article Nr. 50026



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Lift

Lift with swivel arm for loading and unloading of heavy sterilisation baskets up to 30kg

Article Nr. 50033

Freight and Package, Free German border HV110L

behind first lockable door, with package

Article Nr. 24100

Packing, Freight Carriage, Set-up and Start-up HV-L 110

Packing, Freight Carriage free German border, Set-up and Start-up , all included

Article Nr. 24200