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:	400V/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℃
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.

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

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 Bevundimonas 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℃ (open vessels), 90℃(closed plastic vessels), 8 0 ℃ (pressure tight closed glass bottle)
Sensor cable s=4mm
precision ± 0,2℃
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 Ø 390 x 380 H
Article Nr. 50009

Electropolished wire mesh basket for HV-L 110 with closed bottom,
dimension Ø390 x 380 H, with integrated reception dish
Article Nr. 50030

Stainless steel sterilizing can for HV-L110
electro polished stainless steel can Dim. Ø 390 x 375 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. Ø 390 x 290 H, inside Dim. Ø 353 x 280 H, without holes, without lid
Article Nr. 50015M

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

Lift
Lift with swivel arm for loading and unloading of heavy sterilisation baskets up to 30kg
Article Nr. 50032

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

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