

### 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.

### **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°(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**



**HMC Europe GmbH**

**Labor- und Sterilisationstechnik**

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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**