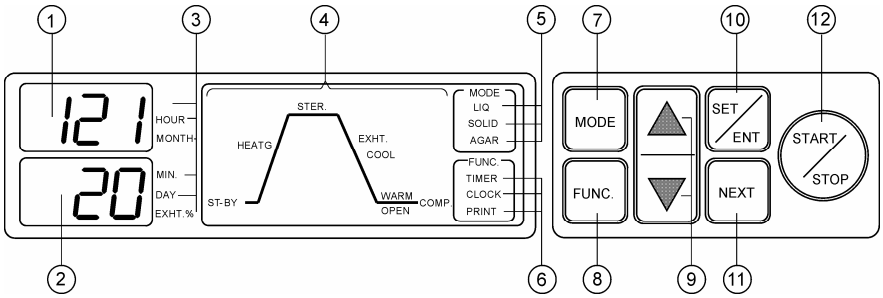
SHORT OPERATION INSTRUCTIONS
FOR STEAM STERILIZER HV SERIES

1. SAFETY DIRECTION

This short operating instructions do not replace the manual. Read in every case before start-up and/or before using steamsterilizer the manual and obey the indicated safety directions!

2. DISPLAY AND OPERATION SWITCHES



(1) Indication of temperature, date, errors
(2) Sterilizing time, time, air evacuation %
(3) Unit display
(4) Cycle Display
(5) Mode Display
(6) Func. Display (timer, clock, print)
(7) Mode Switch for selection Mode and checking set temperature or exhaust%
(8) Func. Switch for activating or modification of functions
(9) Switch for modification of single parameters
(10) Switch for modification sterilizing parameters
(11) Switch for selection parameters
(12) Switch starts and stops the program

3. OPERATION

Unit must be connected to supply (energy, demineralised-water, pressured air, sewerage)
WARNING: THE OPEN/CLOSE LEVER ONLY WORKS, WHEN POWER SWITCH IS TURNED TO „ON“!!.
Pour water into exhaust bottle till marking
Pour water through chamber until hole at the centre of heater cover.
Place the substance to be sterilised into the chamber.

Flexible temperature sensor
Be sure that temperature sensor is activated (press Switch Func. till „FL ON“ comes

4. SELECTING MODE

Prog. -No	MODE	Description	Lid opening.	Sterilising temp.	Sterilising time	Exhaust %
1	LIQ	Sterilization of agar medium (warmed for the prevention of coagulation after sterilization)	80/90/95℃	121℃	20	10
2	LIQ	liquids	80/90/95℃	121℃	20	10
3	SOLID	Solids, instruments, glass	98℃	121℃	20	10
4	AGAR	Dissolution of AGAR with warming cycle 50℃	80/90/95℃	100℃	20	10
5	LIQ	Liquids with warming cycle 50℃	80/90/95℃	121℃	20	cooling
6	LIQ	Liquids with cooling	80/90/95℃	121℃	20	cooling

only for fast recooling

Lid-opening-temperature
For precaution al Liquid programs have standardized take-from-temperature of 80℃

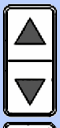
Modification lid-opening-temperature

Modification of lid-opening-temperature is only possible when flexible temperature sensor is installed and activated.

Select program, first you reach the program number, then the standard opening temperature [80 oPN]

Press switch for coming to programme mode, the temperature display blinks

Pressing switch to 80 oPn


Press switch up or down till needed lid-opening-temperature is reached for example 95 oPN

Press switch, the modified temperature is programmed.

Press switch, the lid opening temperature will be announced short time and the program starts

Direction: 80℃ lid-opening-temperature for Liquids in close d glass bottles
90℃ lid-opening-temperature for Liquids in closed plastic bottles
95° lid-opening-temperature for Liquids in open bo ttles

Modification of other programparameters (temperature, time, exhaust)

MODE Select program

SET ENT Press switch temperatur blinks

NEXT Press switch, successsive blinks min (time), warming temperature oPN (80,90,95) and take-off-temperature

▲ ▼ Press switch for modifiing (blinking) parameters

SET ENT Press switch for saving modivication

START STOP Press switch to start program

5. START PROGRAM

Test the feeding water level (demineralised-water)
Choose the suitable program.
Liquid sterilisation: Look for correct take-of-temperature.
Place the flex. temperature sensor in suitable vessel, therefore turn the lock/unlock lever to (left) „LOCK“ position
Press the switch START STOP

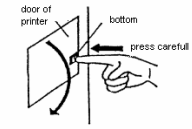
First you see the take-off-temperature and the steamsterilizer starts. „HEATG“ blinks.

6. STOP PROGRAM

Press the switch START STOP
The program can be stopped at every time .After reaching the selected lid-opening temperature and the ambient air pressure (Check that the pressure is at “0Mpa”) the lid can be opened. Turn the lock/unlock lever to (right) „UNLOCK“ position. Open the lid

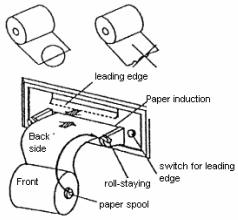
7. PRINTER

The printer will be actevated with Func-Switch and documents the program parameter date, sterilising program, time and exhaust speed.



Description of paper leading edge

Activate the printer.
Press careful the bottom of printer door and open it.
Cut the paper roll straight.
Set the roll exactly as shown in the drawing. Then, slowly insert the leading edge, square and flat, into the leading slot and press the feed switch.



8. EXHAUST AIR FILTER

The exhaust air filter system filters the steam-air mixture when sterilising microbiological contaminated material and waste . The filter system and the filter cartridge is sterilised with each cycle. („In-line“-sterilisation).

The filter cartridge is integrated in a stainless steel case.
This filter case you find inside of the autoclave, it is outside not visible.
The filter system don’t need any adjustment. The average running time is 1.000 hours. The filter cartridges should be changed regularly. Therefore replace the right cover of the steamsterilizer. You can order Filter cartridges (Part.No.50019) on HMC Europe or your distributor.

9. ERROR

If you press switches to fast or wrong, you hear a periodic peep-sound and the programming can’t continue. You cancel this error when you turn short time the lock/unlock lever to (right) „UNLOCK“-position.
Error descriptions in details you find in the operation-manual.

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