



# STERILAB<sup>®</sup>

Steam sterilizer with gravitation de-aeration (without vacuum pump) for laboratory purposes.



Generation of small steam sterilizers



protecting human health

Since 1954, the MMM Group globally operates as one of leading system suppliers of products in health service. Thanks to its complex offer of products and services, washing, sterilization and disinfection equipment for hospitals, scientific institutes, laboratories and pharmaceutical industry, the MMM established itself as an excellent quality and innovation provider in global markets.

BMT Medical Technology s.r.o. is an active member of the MMM Group with many years of tradition in the field of steam sterilizers manufacture. Our production plant in Brno manufactures devices and equipment for central sterilisation units according to requirements of our clients all over the world. We arrange extensive range of manufacture and simultaneously we meet high demands on quality in the field of health care and laboratory engineering.

**Steam sterilizer with gravitation deaeration (without vacuum pump) for laboratory purposes.**

Steam sterilizer STERILAB® with chamber volume of 25 litres, with gravitation de-aeration of chamber (without vacuum pump) represents the generation of small steam sterilizers designed for laboratories..

**Actively Provable Quality**

The company BMT Medical Technology s.r.o. is fully certified for quality management system according to EN ISO 9001 and EN ISO 13485. The small steam sterilizer STERILAB® – meets requirements of technical and legislative regulations of the CR and EU without any exceptions.

- compact, reliable and economic
- fast and safe
- chamber volume 25 litres
- microprocessor control, easy and well-organised servicing
- possibility of placement on the table
- wide offer of operation programs



MMM Group  
– perfection in laboratory  
and medical technique.

Unique design,  
ergonomic panel,  
automatic door closing

## Savings of time, water consumption and service comfort

The device is designed for sterilization of solutions in open bottles, unpacked solid non-porous objects of metal and glass, for sterilization and thermal preparation of laboratory masses – agars, solutions, etc. Standard equipment of the device includes movable sensor PT 100. The solutions cool down spontaneously, most of the programs speed cooling up by controlled additional cooling using steam condensation. Extensive program equipment with possibility of individual program adjustments allows its extensive application. Thanks to its small dimensions, large sterilization chamber, top quality and versatile use, the STERILAB® device is suitable for use in all and any worksites requiring top-class quality, speed, reliability and maximal safety of sterilization.

- compact dimensions and small weight
- optimal useful performance
- rapid steam generation system
- many sterilization programs for selection possibility depending on sterilized material type
- user setting of programs
- keeping the user programs and easy handling using chip cards
- movable sensor for temperature sensing directly in the solution
- possibility of time-delayed switch on of the device and start of its program
- in case of programs with controlled cooling possibility of material removal after reaching the temperature of 50–60°C, at any time during the temperature regulation phase

## Top-Level Ergonomics and Quality

- sterilization chamber with electric heated jacket and independent steam generator made of high-quality stainless steel (DIN 1.4571, AISI 316Ti)
- automatic door closing
- touch display (graphic LCD)
- heat removal out of the sterilizer using powerful cooling system with no request for water connection
- automatic control with two microprocessors
- built-in separate tanks for demi water and waste water with the volume of 6,5 litres – sufficient for performance of at least 5 sterilization cycles with maximal possible load
- indication of max./min. feeding water level and max. waste water level
- batch counter
- RS 232 interface with possibility of external printer connection for documentation of sterilization processes
- Connection to external computer for documentation of sterilization processes using communication software
- possibility of PC connection with communication software PrinterArchiv for data saving
- possibility of change of sterilization programs parameters using the software UNICONFIG

## Safety Equipment

- common two-processor management and control system of sterilization
- mechanic – electric system of door blocking with micro switches
- the door blocking system is connected with the value of overpressure, temperature and presence of solution in sterilization chamber
- automatic transition to safe conditions in case of program interruption
- error warning messages
- antibacterial filter reliably provides quality of chamber aeration after the drying phase in case of underpressure
- safety valve for protection against max. allowed overpressure exceeding
- thermal fuse for protection against inadmissible overheating of electric heating of the sterilization chamber jacket
- thermal fuse for protection against inadmissible steam generator operation without water

## Standard Accessories

- 1 pc sterilization chamber built-in unit base
- 1 pc sterilization chamber built-in unit
- 3 pcs stainless steel perforated bowl 440 × 216 × 15 mm
- 1 pc holder for drawing of bowls
- 1 pc discharging hose
- 1 pc pumping hose
- 1 pc door sealing

Inner organisation of the chamber allows re-organisation and insertion of bottles of various sizes (max. 3 bottles with the volume of 1 l, 6 bottles with the volume of 0,5 l) and dishes.

## Sterilization Programs



- **P1 Solutions** – spontaneous cooling 121°C/20 min, sterilization of solutions in open bottles, movable temperature sensor PT 100.
- **P2 Agars** – cooling down 121°C/20 min, sterilization of solutions and agars in open bottles, after termination of controlled cooling down – automatically 1 hour of tempered sterilization chamber with the temperature of 55–60°C, controlled cooling down, movable temperature sensor PT 100.
- **P3 Arnold 102** 102°C/30 min, sterilization of solutions and agars in open bottles, sterilization by "freely flowing steam", movable temperature sensor PT 100, spontaneous cooling.
- **P4 Temperature cycle 100/121/60** 121°C/20 min, boiling and sterilization of agars in open bottles 30 min at absolute pressure of 110 kPa and 10 min at absolute pressure of 120 kPa and 20 min, with sterilization temperature of 121°C, after termination of controlled cooling down – automatically 1 hour of tempered sterilization chamber with the temperature of 55–60°C, controlled cooling down, movable temperature sensor PT 100.
- **P5 Unpacked instruments 134** 134°C/10 min, sterilization of unpacked solid non-porous objects, controlled cooling down, movable temperature sensor PT 100 is not used.
- **P6 Decontamination 134** 134°C/60 min, decontamination program for unpacked solid non-porous objects and for solutions, controlled cooling down, movable temperature sensor PT 100 is not used.
- **P7, P8, P9, P10 Special** – modified program P1, P2, P4, P6 Change of parameters of sterilization exposition range – time 1–60 min, temperature 100–134°C.

- touch display (graphic LCD)
- built-in steam generator
- autonomous design or feeding with demi water from water treatment plant fixed to water mains
- many sterilization programs for selection possibility depending on sterilized material type
- system of chip cards offering unlimited program equipment
- interface RS 232 for connection of a printer or PC



## Client Service Arrangement

Together with standard supplies of instrumentation, we offer a wide spectrum of services connected with development of central and chart room sterilization units.

- consultancy and project processing including logistics and capacity calculations
- supply of instrumentation including individual information systems "on turn key"

User support and service are arranged in full by the global network of contractual organisation of BMT Medical Technology s.r.o. We have an extensive network of brand service units connected to HOT-LINE service and providing prompt reaction to clients' questions and requirements.

## Validation

We offer performance of IQ and OQ validation tests to our clients on installation site and we also co-operate in arrangement of PQ and requalification tests. The tests are performed by our Accredited Laboratory No. 1325 in compliance with EN ISO 17665-1 and approved operation procedures.

## Environmental Awareness

The device meets all and any current environmental requirements. It does not burden the work and living environment. The external insulation shell of the sterilization chamber is equipped with high-quality insulation significantly reducing thermal losses and saving electric power.

High quality materials guaranteeing long service life of the device are used in manufacture. The device can be optionally equipped with a device for additional cooling of waste water allowing waste temperature setting. The device does not produce any harmful waste. Even its factory manufacture process is based

on environment friendly methods of processing. All the significant parts of the device and package are recyclable. The device consists of 95% of steel, 4% of other materials, 1% of electric material and plastics. Environment - friendly liquidation is performed after dismantling by an authorised person in compliance with EU regulations, corresponding with the WEEE regulation (Waste Electric and Electronic Equipment).

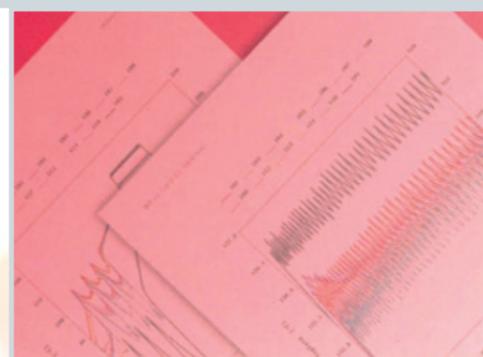
# STERILAB® - Technical Parametres



Model	Dimensions [mm]		Chamber volume [l]		Weight [kg]	Max. input cca [kWA]	Max. cca consumption per 1 sterilization cycle	
	External dimensions of the device (w×h×d)	Usable space (∅×d)	total	usable			Steam generator -demi water conductivity [μS/cm]	Water consumption [l]
STERILAB®	502×475×750	269×440	25	20	77	2,6	15	0,5 - 2

Operation voltage / frequency: 230 V/50 Hz  
 Socket / fuses: 1P/N/PE/AC/16 A  
 Noise level: max < 65 dB

Further technical parameters on request.  
 The values may differ depending on specific charge and media parameters.  
 Changes in the design and make reserved.



**Engineering serving a man  
 - simple, economic and safe.**

The project of development of new line of steam sterilizers was performed under financial support from the public means of the Ministry of Industry and Trade.



More information  
is available direct from  
our internet web site

[www.bmt.cz](http://www.bmt.cz)

Make acquaintance with our further offers...



Large steam sterilizer 73-14901



Steam sterilizer 70 I



Laboratory drying devices and incubators 22-1212 I



Stainless steel instrumentation



Formaldehyde sterilizer 110 I



Exchanger steam/steam



Washer disinfectors for medical usage



Cleaning and disinfection agents



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