STERILAB

BMT
MMM Group

…new generation of small steam sterilizers

…unique design, ergonomic panel, automatic door closing

Steam sterilizer with gravitational way of deaeration (without vacuum pump) for laboratories.

STERILAB – safe, comfortable, with ergonomic design, easy operation, enables to set-up the sterilization exposure time and temperature according to customer's wishes by means of chip cards.

New Generation of Small Steam Sterilizers

Another three models of small-volume steam sterilizers destined especially for:

STERIDENT – dental surgeries, sterilization chamber with the volume of 15 liters and internal dimensions of ∅ 238,5 x 310 mm

STERIMAT – private surgeries, sterilization chamber with the volume of 20 liters and internal dimensions of ∅ 238,5 x 430 mm

STERIMAT PLUS – ambulant private surgeries, sterilization chamber with the volume of 25 liters and internal dimensions of ∅ 269 x 440 mm.

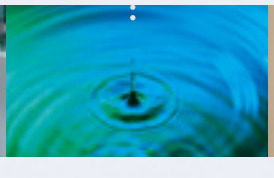
STERILAB – designed for sterilization of solutions in open and closed bottles*, for sterilization of unwrapped solid imporous items made of metal and glass, for sterilization and heat preprocessing of laboratory substances – agars, solutions etc.

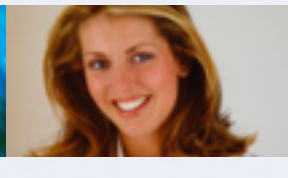
Conformity with European Standards

Small steam sterilizer **STERILAB** – complies, without exception, with requirements of technical and legislative regulations valid in the EU.

CE

- structural design with four patents and the design protected by an industrial design) a patented system of controlling of steam generation, patented system of a unique hardware, patented system of door closing, patented combined function of the pump)
- touch display (graphic LCD)
- built-in steam generator
- autonomous types or types with demineralised water supply from a water treatment plant connected to water pipelines
- series of sterilization programs according to the sort of sterilized material
- chip card system for individual program storage
- RS 232 – interface for printer or PC-communication





protecting human health

Saving of Time, Economical Water Consumption, Comfortable Operation

• compact dimensions and low weight • optimum effective output • system of a rapid steam generating • series of sterilization programs selectable according to the sort of sterilized material • setting-up of programs according to customer's wishes • easy storing of customer's programs onto chip cards • flexible temperature sensor for temperature measurement directly in the solution • possibility of time-delayed switching-on and starting the program • in case of programs with the controlled cooling-down: there is a possibility to unload good any time during the tempering phase after reaching the temperature of 55 – 60°C

Ergonomics and Quality – on the Highest Level

• sterilization chamber with electrically heated jacket and an independent steam generator made of a first-class stainless steel (DIN 1.4571, AISI 316Ti) • automatic door closure • touch display (graphic LCD) • heat removal by means of a powerful cooling system, connection to water source is not necessary • automatic microprocessor control performed by two microprocessors • built-in separated tanks for demi-water and waste water with the volume of 6.5 liters – sufficient for min. 5 sterilization cycles with the maximum possible load • indicator of max./min. levels of supply water and max. level of waste water • counter of charges • RS 232 interface – it is possible to connect an external printer for sterilization process documentation • connection to an external PC for sterilization process documentation by means of the communication software • communication software for PC under Windows for operation parameter documentation • it is possible to change pre-set program parameters by means of software

Safety Equipment

• two-microprocessor control system of sterilization • mechano-electric system of door blocking with microswitches • door blocking system controlled by the value of overpressure, temperature and by the presence of the solution in the sterilization chamber • automatic return into the safe status in case of program interruption • controlled warning and error messages by microprocessor • bacteriological filter ensures the quality of chamber aeration after the underpressure cooling phase • safety valve protection against surpassing the maximum operating overpressure, thermal fuse protection against non-permissible overheating of the chamber jacket electric heating and against non-permissible operation of the steam generator without water

Sterilization programs

P1 Solutions – spontaneous cooling-down 121

121 °C / 20 min, sterilization of solutions in open and closed bottles*, flexible temperature sensor PT 100.

P2 Agars – cooling-down121

121 °C/20 min, sterilization of solutions and agars in open bottles, after finishing the controlled cooling-down: automatic tempering of the chamber at 55–60 °C for 1 hour, controlled cooling-down, flexible temperature sensor PT 100.

P3 Arnold 102

102 °C/ 30 min, sterilization of solutions and agars in open and closed bottles*, sterilization with „freely streaming steam", flexible temperature sensor PT 100, spontaneous cooling-down.

P4 Temperature cycle 100/121/60

121 °C/20 min, preprocessing and sterilization of agars 30 min at the absolute pressure of 110 kPa and 10 min at the absolute pressure of 120 kPa and 20 min at the sterilization temperature of 121 °C, after finishing the controlled cooling-down: automatic tempering of the chamber at 55 – 60 °C for 1 hour, controlled cooling-down, flexible temperature sensor PT 100.

P5 Unwrapped instruments 134

134 °C / 10 min, sterilization of unwrapped solid imporous items, controlled cooling-down, no use of flexible temperature sensor PT 100.

P6 Decontamination 134

134 °C / 60 min, decontamination program for unwrapped solid imporous items and for solutions, controlled cooling-down, no use of flexible temperature sensor PT 100.

P7, P8, P9, P10 Special

modified program P1, P2, P4, P6
Change of sterilization exposure parameters – time 1 – 60 min, temperature 100 – 134 °C.

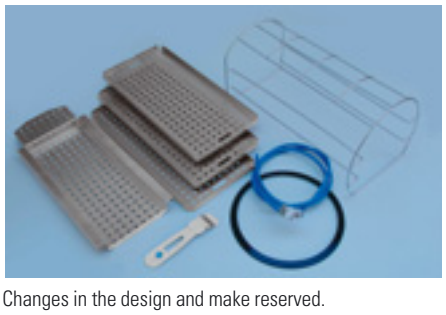
P11 Service – service program with useful functions and services, for easy check-up and maintenance.

*Only type – reagent bottle 1 000, 500, 250, 100 ml with the thread GL 45, complying with DIN 168, Part 1, ISO 4796, marked SIMAX, with a blue stopper

Technical Data

Chamber volume – total/useful:	25/20 liters
Sterilization chamber dimensions- diameter/depth:	269 /440 mm
External dimensions of the sterilizer – width x height x depth:	502 x 472 x 750 mm
Weight:	77 kg
Operating voltage/frequency:	230 V, 50/60 Hz
Connection socket/fuses:	1P/N/PE/AC/16 A
Average acoustic power:	< 65 dB (A)
Water consumption for one sterilization cycle:	0,5 – 2 l
Steam generator – demin-water conductivity:	15 µS/cm
Power input:	2,6 kVA

Further technical parameters on request.



Changes in the design and make reserved.

Standard accessories

1 pc base of the built-in piece sterilization chamber
1 pc sterilization chamber built-in piece
3 pcs of stainless steel trays,
perforated plate 440 x 216 x 15 mm
1 pc of holder for unloading of trays
1 pc of discharge hose
1 pc of filling hose
1 pc of door sealing

Inner parting of the chamber enables adapting and inserting of various sizes of bottles (max. 3 bottles with the volume of 1 l, 6 bottles with the volume of 0.5 l) and vessels.

BMT Medical Technology s.r.o., Cejl 50, CZ 656 60 BRNO
Tel.: +420 545 537 111, fax: +420 545 211 750
e-mail: mail@bmt.cz, http://www.bmt.cz

STERILAB – 04/2009 – EN/9747 Photo & design T. Benda