



STERIVAP

Steam sterilizer for health care



INNOVATION



Excellent Price – High Quality Engineering



...protecting human health

MMM Group – leading supplier of health care systems

Since 1954 the MMM Group has been active world-wide as one of the leading system suppliers to the health care sector.

With a complete range of products and services as well as sterilization and disinfection units for hospitals, institutes of science, laboratories and pharmaceutical companies, MMM has established itself as the excellent holder of quality and innovations within the German and international market place.

Economic use of utilities for reasonable price

The new STERIVAP steam sterilizer represents the ideal choice for everyday use in health care.

STERIVAP is the right choice for smaller health care facilities as well as for all the central sterilization facilities, specifically designed for economic use of utilities.

Technical legislative standards

The company BMT Medical Technology s.r.o. holds the certificate to provide a complete system of quality management:

- According to EN ISO 9001:2000, EN ISO 13485:2003
- For the purpose of proving the declaration of conformity according to European Directive No. 93/42/EEC making possible the export of medical devices to EU
- For production of pressure devices according to Directive No. 97/23/EC, module H/H 1, Annex 3 for export to EU

– Certificate of the Accredited testing laboratory No. 1325

The device meets a series of technical standards as for example, EN 285:06; EN ISO 17665-1:06 etc.

The device has been issued with the Declaration of conformity.



It is at our production plants based in Stadlern, Germany and Brno, Czech Republic that we manufacture the products, which meet the requirements of our clients all over the world. Within both of these plants we ensure a high volume of production and thus meet the highly demanding requirements for quality in the field of medical instruments.

A high standard of production, up-to-date electronics and quality materials are the standards that STERIVAP devices adhere to as a matter of course, recognising the need for an extraordinary level of safety and reliability.

STERIVAP is designed for the sterilisation of solid, porous, plastic materials and solutions in open bottles.

The basic version of the device comes with a utilizable volume of 148 – 1490 litres, and together with the offer of optional equipment it will satisfy the interest of those looking to ensure fast, quality sterilization.

- For production of pressure devices according to ASME Code making possible for BMT to export to the USA
- For production of pressure devices and steam generators AQSIO making it possible for BMT to export to China

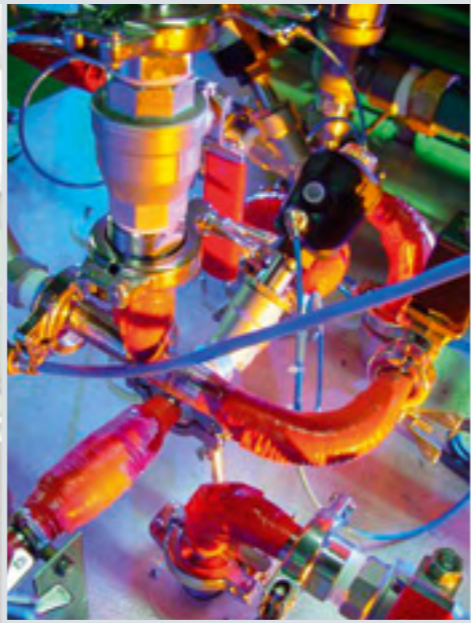
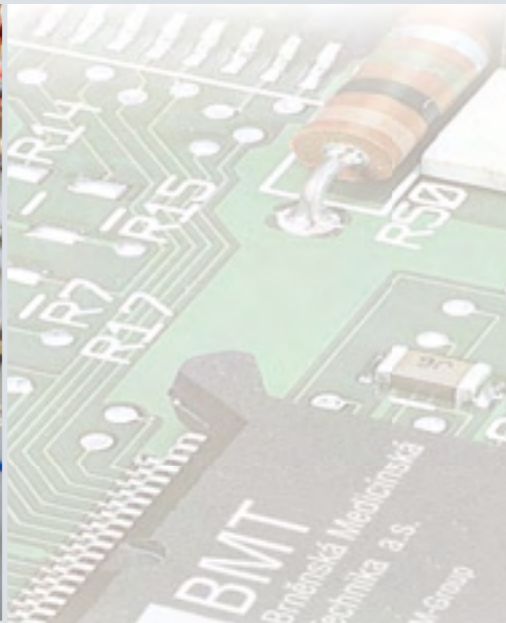


Completely new design A new design version

- massive pressure sterilization chamber with heated jacket, door and built-in steam generator are made of high-quality stainless steel, applied materials AISI 316 Ti and AISI 316 L
- gradient bottom of sterilization chamber for perfect drying
- standard surface of sterilization chamber blasted with corundum
- perfect thermal insulation of sterilization chamber with special insulation layer Rock wool in thickness of 125 mm and outer insulation jacket made of dip galvanized sheet for substantial reduction of heat losses and easy cleaning and maintenance
- all sterilization chambers are as standard, equipped with two easily accessible inlet connections for validation according to EN 285:06 in diameter of 25 and 50 mm
- stainless steel frame able to be divided
- piping distributions conducting steam into the sterilization chamber are made as a standard of stainless steel, valves are made of brass
- all piping distributions are thermally insulated
- high-performance, noiseless suction pump for higher efficiency and reliability (two-stage for types 636 to 669)
- single, mechanical filter on supply water inlet for protection of the valve and suction pump
- bacteriologic filter for vent of the sterilization chamber (0.1 µm)
- integrated drain – due to dampness elimination in the device space all pipes are led to one common sump
- single and double door (interleaving) type (type 446 – 6618 vertically and type 9612 – 9621 horizontally sliding doors)

Intelligent system for saving media

- special divided double chamber jacket of sterilization chamber for better and more accurate course of sterilization chamber with an independent and stable chamber pre-heating lowering consumption of demi-water ca 20 %
- integrated device for supply water saving, lowering consumption of operating cost by up to 80 %
- steam generator with microprocessor automatic control and unique design of steam generator with big capacity and automatic desalination ensures short times of sterilization cycles and permanently high steam quality



- making it possible for the sterilizer to pass through a door, minimum of 1 000 mm wide
- motor driven doors of sterilization chamber with unique spring-loaded mechanism, with double safety door protection (safety strip and clutch)
- integrated steam generator is made with heating elements as a standard of stainless steel
- stainless steel cover sheets are reinforced by a frame ensuring an extended working life in comparison with other usual designs
- easy access to the device is ensured by door lockable panels
- reinforced stainless cover sheets for quiet operation

Benefits to you – shorter cycle times, economical operation, very low consumption of services, long-term life and reliability of the device

New control panel with intuitive control

- two built-in microprocessor control systems (Master and Slave) with own sensors for independent evaluation, control and documentation of operational cycles
- ergonomic positioned control panel at eye level, away from thermally exposed zone
- technology of touch-screen display 8.2" ensures transparent and easy operating on the loading side
- on unloading side (in case of two door type) of the device the LED display with a possibility of monitoring of actual working phase and pressure in the sterilization chamber
- "total stop" function integrated into the control panel
- built-in printer for documentation of sterilization processes
- system of chip cards
- possibility of language selection for communication with the device
- transparent digital description of steam pressure in the jacket of sterilization chamber and in steam generator, pressure and temperature in sterilization chamber (reference bottle)
- clock – indicator of the remaining time of the program and the real time indicator
- print of error protocol with the record of all parameters at the moment of defect for a possibility of fast and remote service
- visual and acoustic signalling of states and processes

Within the basic software facility we offer up to 14 standard programs

The sterilizer is standardly equipped with "Preheating program" (134 °C/1 min).

Standard, validated programs:

- Unwrapped tools 134 °C/4 min
- Wrapped materials 134 °C/7 min
- Wrapped materials with intensive subsequent drying 134 °C/7 min
- Wrapped products of glass, rubber and plastics 121 °C/20 min

Special programs:

- Prions 134 °C/60 min
- Disinfection 105 °C/20min
- Solutions in open bottles – 121 °C/20 min, spontaneous cooling

Seven free programs adjustable at the producer for individual software facility according to specific needs of a consumer (e.g., laparoscopy, alloplasts, plastic materials, optics, ...)

Top safety in solution sterilization – apart from standard working and safety procedures and processes is sterilization of solutions controlled as well as by three independent systems –temperature and pressure check in sterilization chamber, temperature check in reference bottle and minimal necessary time of sterilization cycle. Only when

meeting all the cycles mentioned-above will the program declare itself to be complete. The system will then allow the chamber door to be opened.

Standard testing programs for routine testing:

- Vacuum test – test of the chamber airtightness, duration of equalizing phase is 5 min, test duration of 10 min
- Bowie&Dick test 134 – test of steam penetration, 134 °C/3.5 min

Equipment for service

Automatics control is equipped with a wide choice of software for easy check, maintenance and testing (interactive piping connection chart, testing programs enabling the testing of safety elements of the device, calibration adjustment etc.).

Software facility can be extended and modified by means of chip cards system and special service software.

Batch documentation

- all sterilizers are as standard equipped with quality and silent thermo-printer
- independent documentation of working cycles, possibility to store several cycles in memory
- possibility of selection of one of four graphic outputs
- possibility of connection to PC and storage of protocols in the computer memory (RS 232)

Sterivap 050219

P1 Tools fast, 134.0 °C, 4.0 Min
Start 11:06:04 06.10.2006
T = 24.3 °C; PT31 = 23.4 °C; p = 98.0 kPa

Charge 000014

Media Pressure - Dew-Meter: 68.3 kPa †
Evacuation (D)
T = 37.6 °C; p = 99.8 kPa; 11:20:58 06.10.2006

Media Pressure - Dew-Meter: 68.3 kPa †
Evacuation (D)
T = 37.6 °C; p = 99.8 kPa; 11:20:10 06.10.2006
T = 50.4 °C; p = 11.1 kPa; 11:22:33 06.10.2006

Heating 11:24:35 06.10.2006
T = 103.0 °C; PT31 = 103.5 °C; p = 130.5 kPa

Media Pressure - Dew-Meter: 62.2 kPa †

Process Interrupted

11:28:22 06.10.2006

Phase: 093 - Heating 1
P104 = 21.6 kPa
P111 = 213.0 kPa
P112 = 213.5 kPa
P12 = 204.9 kPa
P120 = 213.1 kPa
P13 = 300.6 kPa
P131 = 122.0 °C
P132 = 123.6 °C
P12 = 38.7 °C
P138 = 125.4 °C
P15 = 26.8 °C
P16 = 60.7 °C
Y20-Opened Y27-Closed Y28-Closed Y31-Not Opened
Y32-Not Opened Y33-Closed Y34-Not Opened
Y35-Not Opened Y36-Not Opened Y37-Closed Y38-Closed
Y39-Closed Y40-Closed Y41-Closed Y42-Closed
Y43-Closed Y44-Closed Y45-Closed Y46-Closed
Y47-Closed Y48-Closed Y49-Closed Y50-Closed
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Y995-Closed Y996-Closed Y997-Closed Y998-Closed
Y999-Closed Y1000-Closed

End 11:34:30 06.10.2006
Program Length = 00:28:26

Process Interrupted

Signature:



Modular system

- 1 system for manual loading of material
 - a) shelf supports
 - b) perforated shelf
- 2 system of transport and loading carts
 - a) frame for the loading cart
 - b) loading cart
 - 1) universal
 - 2) special
 - 3) for solutions
 - c) transport and loading cart
 - d) dripping water for solutions
 - e) hook for unloading of the loading carts
- 3 stainless panel sheets of the device
- 4 possibility of building-in into stainless steel walls, double sided design of the device enabling to join two service rooms into one
- 5 print of graphic record of pressure and by means of build-in printer for documentation of sterilization cycle



Optional equipment

- 6 thermo-degassing of supply demi-water for the steam generator to minimize the content of incondensable gases
 - 7 possibility of installation for the device for after-cooling of condensate
 - 8 stainless steel valves
 - 9 "Air detector" for continual presence of air and incondensable gases in sterilization chamber in the course of each sterilization program for maximum safety of sterilization as compared to routine testing programs (Vacuum and Bowie & Dick test) performed only once a day before the start of a routine operation (HTM 2010)
 - 10 special programs in chip cards
 - 11 additional mechanical manometers
 - a) on loading side
 - b) on unloading side
 - 12 polishing of inner surface of sterilization chamber in brilliant polish with roughness Ra 0.125 μm (Ra 5 μin)
- tropical version for countries with high temperature of cooling water
- regulation of the device operation – control of energy maximum take-off in case of connection of more devices into electric network
- continual control of parameters of input media (pressure air, demi- and cooling water)



– Automatic starting of warm up cycle is one of a series of energy saving features which will save your working time. The device is switched on according to the pre-set time without the presence of the operator. The equipment is pre-heated and a vacuum test is performed.

Chamber utilization

- 13 sterilization basket
- 14 variability in the use of a series of containers
- 15 sterilization of solutions – reference bottle with temperature probe PT 100



5

Sterivap 050219

PI Unwrapped fact 034, 036.0 °C, 4.0 min
 Start 101612 23.01.2006
 T = 94.5 °C; p = 100.3 kPa

Charge 000003

Evacuation ID 101610 23.01.2006
 T = 94.4 °C; p = 5.0 kPa

Heating 101650 23.01.2006
 T = 105.0 °C; p = 130.1 kPa

Start of Sterilization 102344 23.01.2006
 T = 134.6 °C; p = 35.3 kPa

End of Sterilization 102744 23.01.2006
 T = 135.3 °C; p = 35.0 kPa

Drying ID 102852 23.01.2006
 T = 100.0 °C; p = 89.4 kPa
 T = 82.3 °C; p = 2.7 kPa

End 103551 23.01.2006

Faultfree
 Signature:

150°C
350kPa 0°C
0kPa

Offer of clients services

As well as Sterilization equipment we offer a further range of services, which are related to the building of central sterilization departments and sterilizations carried out by surgeries.

– We are able to offer consultancy and project development including logistics and capacity calculation

– We are able to offer turn key supply of equipment including unified information systems

– We are able to offer a new kind of service, “installation test” and “validation testing” as one of conditions for quality improvements and technical improvements into health care markets. This enables us to prove our conformity to the appropriate standards with the pre-set parameters of the device being set by the manufacturer.

Service and support for the equipment itself and for the users are covered by world-wide network of contractual organizations, BMT Medical Technology s.r.o. We organize regular training of service technicians and

questions and requirements. In order to ensure a good quality service to the user and the possibility of fast service intervention we have developed a special auto diagnostic program. We offer ON-LINE internet diagnostics and monitoring of sterilization device (RMS), which provides fast and direct communication with instrumentation and ensures a continuous, problem-free operation of the equipment within its installed site.

This all guarantees low cost operation and long operational life of the system.

Environmental features

The device meets all present ecologic requirements. It does not burden the working conditions and environment. The outer cover of the insulated jacket of the sterilization chamber is manufactured using galvanized sheet with a quality insulation beneath. This substantially reduces the thermal losses therefore saving electric energy. As standard the equipment has a built-in device which saves up to 80 % of the water requirements consumed by the vacuum pump. A uniquely divided double chamber jacket

with a steam system allows pressurization of the sterilization chamber, this reduces the demi-water consumption by approximately 20%. The steam generator is controlled by an automatic microprocessor system and as a standard it is equipped with a clarifying device. In production we monitor the quality of the materials ensuring a long operational life of the device.

The equipment is fitted with additional components that cool the waste water to a pre-set temperature before it enters the drainage systems.

The production of the equipment and its process cycles are all based on environmentally friendly methods.

All the substantial parts of the unit and packaging are recycled.

The unit is made up of 95 % steel, 4 % of other materials, 1 % electric material and plastics. Ecologic liquidation is performed after the disassembling by the authorized person in accordance with EU regulation, which meets the Regulation WEEE (Waste Electric and Electronic Equipment).

STERIVAP – TECHNICAL PARAMETERS



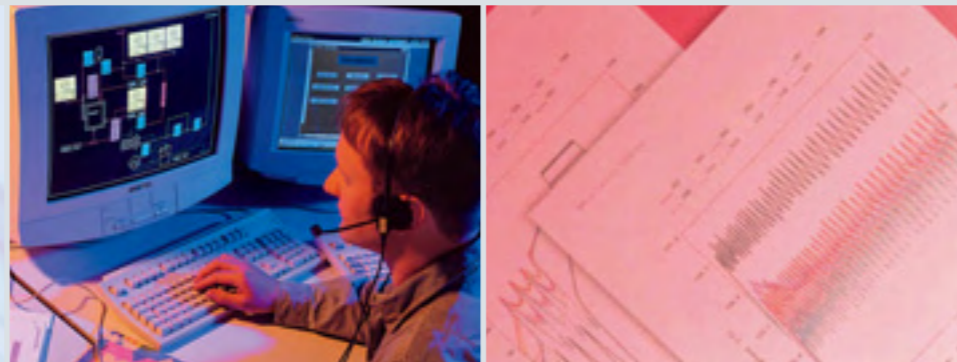
Model SP HP E	Dimension (h x w x d) [mm]		Number of sterilization modules	Chamber volume [l]	Weight [kg]	Max. input [kW] fuses [A]	Max consumption per 1 sterilization cycle		
	Internal dim. of the chamber	External dim. of the unit					Water [m ³]	Demineralized water [m ³]	Electric energy [kWh]
446 – 1	480 x 450 x 700	1918 x 1200 x 970	1	148	650	24,5/63	0,06	0,006	5,0
446 – 2	480 x 450 x 700	1918 x 1200 x 990	1	148	700	24,5/63	0,06	0,006	5,0
636 – 1	670 x 350 x 700	1918 x 1000 x 970	2	160	740	24,5/63	0,06	0,006	5,0
636 – 2	670 x 350 x 700	1918 x 1000 x 990	2	160	770	24,5/63	0,06	0,006	5,0
666 – 1	700 x 650 x 690	1918 x 1300 x 970	4	314	1030	38/63	0,07	0,008	6,0
666 – 2	700 x 650 x 690	1918 x 1300 x 990	4	314	1100	38/63	0,07	0,008	6,0
669 – 1	700 x 650 x 990	1918 x 1300 x 1270	6	453	1130	47/80	0,08	0,009	7,5
669 – 2	700 x 650 x 990	1918 x 1300 x 1290	6	453	1200	47/80	0,08	0,009	7,5
6612 – 1	700 x 650 x 1340	1918 x 1300 x 1620	8	610	1330	48/80	0,09	0,011	9,0
6612 – 2	700 x 650 x 1340	1918 x 1300 x 1640	8	610	1400	48/80	0,09	0,011	9,0
6618 – 2	700 x 650 x 1940	1918 x 1300 x 2240	12	885	1750	66/100	0,20	0,013	15,0
9612 – 1	1000 x 650 x 1340	1918 x 1900 x 1620	12	868	1750	66/100	0,20	0,013	16,0
9612 – 2	1000 x 650 x 1340	1918 x 1900 x 1640	12	868	2050	66/100	0,20	0,013	16,0
9618 – 1	1000 x 650 x 1940	1918 x 1900 x 2220	18	1260	2650	76/125	0,30	0,025	23,0
9618 – 2	1000 x 650 x 1940	1918 x 1900 x 2240	18	1260	2850	76/125	0,30	0,025	23,0
9621 – 2	1000 x 650 x 2300	1918 x 1900 x 2600	21	1490	2900	–	0,40	–	–

Model 9612, 9618, 9621 – with horizontally sliding door(s)
 Model xxxx-1 single-door type
 Model xxxx-2 double-door type
 Model 6618, 9612, 9618, 9621 – steam generator is placed above or beside the sterilizer

1 sterilization module (STM)
 Connecting voltage 3P/PE 400V, 50/60 Hz
 Noise level: max. 78 dB
 Installation carrying capacity of the floor 300–400 kg/m²

Changes in the design and make reserved.

Model line STERIVAP offers optimum solution for your individual requirements



measure their ability before issuing a special certificate showing their ability to carryout service operations.

We have an extensive network of recognised worksites connected to a HOT-LINE service, this ensures a quick reaction to client's

Technology training of service people, simply, economically, safely.

STERIVAP

– high utility value for reasonable price

STERIVAP HP

– more individuality and comfort

More information
is available direct from
our internet web site



Make acquaintance with our further offers...



Small steam sterilizers 15 – 25 litre



Steam sterilizer 70 litre



Laboratory drying devices and incubators 22 – 707 litre



Stainless steel instrumentation



Formaldehyde sterilizer 110 litre



Exchanger steam/steam



Tests of sterilization efficiency



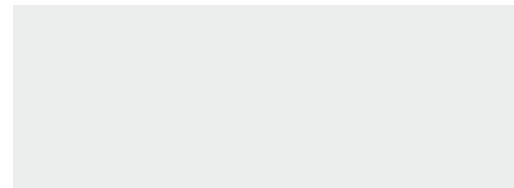
Cleaning and disinfection agents



MMM Group



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