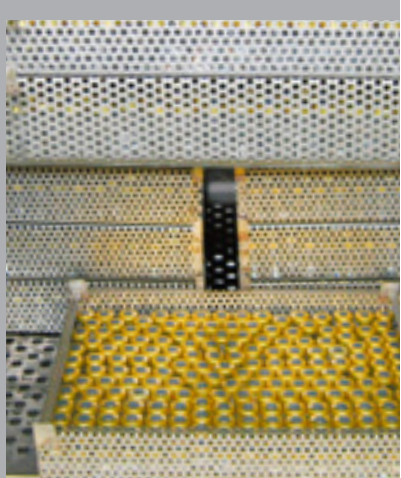




STERIVAP HP IL

large steam sterilizer



Disinfections, sterilisation and decontamination
in the science, research and industry area



protecting human health

Tradition, quality, innovation

Since the foundation of the company in 1921, the BMT Medical Technology s.r.o. had expanded from a small, regionally oriented company into an international company. In 1992, it became the member of European MMM Group, operating on the world market as a supplier of systems acting in health, science and research since 1954. The MMM Group has established with its complex offer of products and services for hospitals, science institutes, laboratories and pharmaceutical industry as an excellent quality and innovation holder over the worldwide market.

Universal, actively demonstrable quality

STERIVAP HP IL is the representative of a new generation of big steam sterilizers meeting without exception the basic EU technical-legislative rules. The device's conception is based on the requirements of the European directives No. 2006/95/EC, 89/336/EEC, 97/23/EC and on the provisions of EN 285+A2 and EN ISO 17665-1 standards and is also fit to the individual needs of each working places.

Both the pressure chamber and the steam generator are designed and manufactured in the certified quality system according to the

Original without compromises

- big, colour, tilting control panel "touch-screen" 12" with maximal operating and service comfort
- two-stage, high-performance, suction pump for short charges times, quick and accurate cycle processing
- double-processor control by two independent "Master and Slave" systems for quick and accurate cycle processing
- unique, patented, double chamber jacket with an independent and stable preheating for economical operation and low media consumption
- the device is produced from a high-quality stainless steel inclusive the solid, divided frame for the long-term lifetime and reliability
- thermal deaeration for higher operation reliability and sterilization safety



laboratories

pharmacy

BSL 3 / BSL 4

biomodels



Knowledge and experience, acquired during the individual delivery for our customers, as well as new technical innovations continuously positively influence the development, design and production of our devices. A large variety of patents, utilization models and industrial designs and an easy modification of devices according to individual requirements confirm the high quality of our work.

MMM Group – perfection in laboratory and medical technique.

European Directive for pressure equipment No. 97/23/EC or, in case of an individual requirement, according to the standards ASME Code, Section VIII, Division 1 (for the USA and Canada) or according to the license regulations AQCIQ (for China). The construction of the device meets the GMP and GLP requirements.

The device meets the latest health service, laboratories, pharmaceutical, chemical and food industry requirements.

We offer many other optional services to our clients, contributing to the sterilisation processes quality increasing:

For the purposes of fulfilling the GMP requirements for proving of permanent sterilisation quality in line with device parameters declared by producer (importer), we offer also the service making of Q – installation qualification, OQ – operating qualification and PQ – processing qualification (validation) to the STERIVAP HP IL steam sterilizers users. We also offer the making of FAT and SAT sterilizers takeover tests. The tests and validations according to the EN 285+A2 and EN ISO 17665-1 standards are performed with use of our accredited testing laboratory potential.



Individually built sterilization technique

The latest modularly built STERIVAP HP IL sterilizer is suitable for the microbiology, molecular biology, biotechnology and waste decontamination area. The steam sterilizers are intended for sterilization of solid objects without liquids content, liquid sterilization – solutions, cultural and boiling soils,

Intelligent systems of media and working timesavings

- unique divided double sterilization chamber jacket for better and more accurate sterilization cycle processing with an independent and stable system of chamber preheating, which reduces the demi-water consumption by approx. 20 %
- outer insulating jacket of the sterilising chamber with high

Coherent constructional solution, production machining and design

- well-arranged, ergonomic placed control panels
- easy intuitive control and service
- modern and ergonomic horizontal chamber positioning
- possibility to use the comfortable transport and charging equipment for all types

STERIVAP HP IL

Revolution on the big steam sterilization scene



**NEW
2STM**

...just a touch

suspensions and emulsions, liquid medical forms; steam decontamination.

The STERIVAP HP IL sterilizer – safe, quick, ergonomically designed, easy to handle, with possibility of individual modifications and with versatile use.

The sterilizer line with chamber volume 148 – 1490 litres.

The superior production quality, modern electronic and high quality materials are in case of STERIVAP HP IL equally obvious as the user properties or extraordinary safety and reliability level.

quality insulation, which reduces substantially the heat losses, saves the energy

- standard built-in device for saving of water for suction pump, which saves ca 15 % of water running costs
- steam generator with the microprocessor automatic, with the unique construction, with the high performance, with the thermal deaeration of the demi-water for minimisation of the non-condensed gases and with the automatic desalinisation secures short times of the sterilising cycles and permanently high steam quality
- function "Automatic morning putting-on" is other from many economical products, which will save the operating personnel working time; the device will be put on at the predefined time without the operating personnel presence, it will be automatically preheated and makes the vacuum test, and so it is prepared for operation on the start of user working time
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- automatic sealing and motoric door movement
- service only from the front and one optional side wall
- possibility of the right and left version for optimal space use
- robust divided stainless-steel skeleton, with possibility of door opening of 1 000 mm
- motoric sterilisation chamber door control with an unique spring mechanism without counterweight, with double security door protection (security bar and coupling)
- simple mechanical filters on the media inputs for the valve and air pump protection
- bacteriologic filter for filling the sterilisation chamber by air (0,1 µm)
- watertight outlet supply – for the reason of humidity elimination in the instrument area are all pipes connected into a common reservoir, insulated from the ambient
- tubular distributions and the valves transporting steam into the sterilisation chamber and demi water into the built-in steam generator are standard made from the stainless steel
- powerful, noiseless air pump for higher efficiency and reliability (two-stage for the 446 to 669 types)

- on-line device monitoring
- motor driven door with an unique spring system without counterweight
- constructional modular system gives the possibility of individual device construction
- ergonomic adjustable position of the touch control panel placed outside the thermally exposed zone secures the high quality readability and easy operating personnel work regardless the figure height
- forms simplicity and usefulness, high-quality surface of stainless-steel facing sheets enables the perfect hygiene
- facing sheets, reinforced by divided, stainless steel frame grant the noiseless operation and extended device lifetime
- manual and transporting and loading system guaranties the easy operating personnel work with sterilizing material
- maximally effective use of internal sterilizing area



laboratories



pharmacy



BSL 3 / BSL 4



biomodels

Modular arrangement

- single and double (passing through) door version (type 446–6618 vertically and type 9612– 9621 horizontally sliding door)
- stainless steel device facing sheets are against the standard solutions hardened by frame ensuring the extended lifetime and noiseless device operation
- easy access into the device is secured by lockable door panels
- own, external and combined steam source
- more than 60 optional specific additives (e.g. a possibility of chamber equipping by a flexible PT 100 sensor for safe and accurate cycles controlling during the work with microbiological cultures and solutions, a possibility of building-in the device for the after-cooling of condensate, a possibility of adaptation for decontamination of materials, “Bio-Seal” gastight version, pressure gauges, a range of individual programmes modification, ...)

- unlimited number and easy modification of programs by means of chip cards
- unique error protocol for precise and quicker error diagnostics
- up to 20 standard programmes in basic software
- easy individual programme modification
- more than 80 service programs for easy set-up, calibration, diagnostics and service

The highest safety for sterilization of solutions

Besides the standard operation and safety procedures and processes, the sterilization of solutions is monitored also by three independent systems – chamber temperature and pressure check, temperature in the reference bottle check and the minimum time necessary for the sterilization cycle check.

Only if the conditions of all three mentioned processes are met, the program is declared as finished and the system allows to open the chamber door.

- Ra 0,8 μm (Ra 32 μinch) or polishing into the mirror-lustre with surface roughness Ra 0,125 μm (Ra 5 μinch)
- perfect Rockwool thermal insulation with thickness of 125 mm together with the third external insulating jacket
- as a standard, all chambers are provided with two easily accessible input nozzles for validation with the diameter of 25 and 50 mm
- the motor driven door with a spring system without counterweight is provided by two independent safety systems – a contact bar and clutch with an adjustable slip force
- on demand, we make the chamber passivation (pickling)

High power steam generator

- the steam generator is made from the high-quality stainless steel AISI 316 Ti
- high-quality Rockwool insulation and external insulating jacket reduce the thermal losses considerably

Wide range of options

- gastight version “Bio-Seal” with possibility of independent and permanent chamber door sealing by pressurised air
- pressure sterilization chamber with mirror lustre
- stainless steel valves, sterilizable filters with integrity test
- “Air-detector”
- F_0 control of sterilizing process with supporting air pressure, forced jacket cooling with supporting air pressure, possibility of the charge showering
- e-documentation of sterilizing processes with the possibility of device connecting into the computer network (LAN)



Unique microprocessor control

- the highest possible operational safety, double system of process data collection and evaluation and continual comparison and evaluation of these data
- any detected deviation above the permitted value activates the error message
- two built-in microprocessor control systems (Master-Slave) for independent evaluation, control and documentation of working cycles

Pressure sterilization chamber

- the massive chamber, door and the heating jacket are made from high-quality stainless steel AISI 316 Ti and AISI 316 L
- cambered sterilization chamber bottom for perfect drying
- standard surface of the sterilizing chamber– polishing of the chamber internal surface Ra 1,25 μm (Ra 50 μinch); optional polishing with roughness

- thermal de-aeration of the demi-water for minimizing the content of non-condensed gases in the steam generator
- the function of water filling and the steam generator power are controlled and monitored by the control system Master-Slave
- for pharmaceutical use, we offer a special equipment instead of standard delivered steam generator

New control panel with an intuitive control

- modern technology of the touch display “touch-screen” 12” with ergonomically adjustable panel ensures the transparent and easy operation on the charging device side
- on the discharging device side (in case of two-door version) the display “touch-screen” with possibility of monitoring the actual working phase and pressure in the sterilization chamber
- control panels located outside the thermally exposed zone
- two built-in microprocessor control systems (Master-Slave) with own sensors for independent working cycles evaluation, control and documentation
- “Total stop” function integrated into the control panel, enables, in case of need, the device putting into the idle condition
- built in printer for sterilization processes documentation
- possibility of choosing the language for communication with the device
- transparent digital displaying of vapour pressure in the sterilization chamber jacket and in the steam generator, of pressure and temperature in the sterilization chamber (reference bottle)
- clock – indication of remaining programme time and indication of real time
- visual and acoustical signalisation of states and processes
- function “Automatic morning putting-on” enables to put the device on at the predefined time without the operating personnel presence, its automatic preheating and making the vacuum test
- optional accessory for special laboratory applications – choice and start of programme also from the clean side
- „Records history” – this function allows to choose the required record from the history (last 10 records) and to print it, or to display the pressure and temperature record (either in graphical or numerical form)

Sterivap HP IL 061120
P1 Mark up, 131.0 °C, 2.0 Min
Start 11:30:45 2008-12-05
T = 40.3 °C; p = 98.3 kPa

Charge 000003

Execution ID
T = 40.7 °C; p = 99.0 kPa; 11:31:03 2008-12-05
T = 68.9 °C; p = 9.1 kPa; 11:32:55 2008-12-05

Heating 11:34:52 2008-12-05
T = 102.5 °C; p = 130.5 kPa

Start Of Sterilization 11:36:46 2008-12-05
T = 134.9 °C; p = 386.8 kPa

End Of Sterilization 11:38:46 2008-12-05
T = 135.3 °C; p = 384.4 kPa

Sterivap HP IL 061120
P4 Rubber, 121.0 °C, 20.0 Min
Parameters Modified By User
Start 06:40:26 2008-03-27
T = 25.3 °C; p = 97.9 kPa

Charge 000061

Execution ID
T = 26.4 °C; p = 99.0 kPa; 06:20:26 2008-03-27
T = 33.6 °C; p = 8.4 kPa; 06:22:14 2008-03-27

Execution ID
T = 105.3 °C; p = 125.3 kPa; 06:25:54 2008-03-27
T = 51.6 °C; p = 10.5 kPa; 06:28:25 2008-03-27

Execution ID
T = 106.5 °C; p = 126.1 kPa; 06:30:14 2008-03-27
T = 63.7 °C; p = 10.5 kPa; 06:32:21 2008-03-27

Execution ID
T = 106.5 °C; p = 126.1 kPa; 06:34:01 2008-03-27
T = 66.5 °C; p = 10.5 kPa; 06:36:12 2008-03-27

Sterivap HP IL 070111
P8 Liquids Fo, 121.0 °C, Fo = 15.0
Bacteriologic Filter - On
Start 13:51:46 2007-03-08
T = 36.5 °C; p = 97.9 kPa

Charge 000015

Execution ID
T = 36.5 °C; p = 98.0 kPa; 13:51:47

Heating 13:53:27 2007-03-08
T = 40.7 °C; p = 130.8 kPa

Start Of Sterilization 14:07:27 2007-03-08
T = 121.2 °C; p = 215.9 kPa

Fo Parameter = 15.0; 14:15:45 2007-03-08

End Of Sterilization 14:15:45 2007-03-08
T = 122.3 °C; p = 213.3 kPa

Cooling Complete 15:05:32 2007-03-08
T = 95.0 °C; p = 95.9 kPa

Fo Parameter = 23.5; 15:07:05 2007-03-08

End 15:07:05 2007-03-08
Program Length = 01:15:19

Faultfree
Signature:

Sterivap HP IL 060827
P7 Liquids, 121.0 °C, 20.0 Min
Start 09:20:44 2008-01-21
T = 33.4 °C; p = 97.6 kPa

Charge 000015

Execution ID
T = 33.7 °C; p = 100.9 kPa; 09:20:00

Heating 09:23:03 2008-01-21
T = 38.5 °C; p = 100.0 kPa

Start Of Sterilization 09:39:49 2008-01-21
T = 121.2 °C; p = 216.1 kPa

Cooling Complete 10:03:53 2008-01-21
T = 75.9 °C; p = 85.7 kPa

End 10:15:14 2008-01-21
Program Length = 00:55:00

Faultfree
Signature:

Charge documentation

The transparent documentation of working cycles could be secured by:

- an independent documentation of the working cycles with pressure and temperature recording and the possibility to save the last 10 records in the memory of the sterilizer.
- a standard built in printer with a possibility of selecting one of four graphic outputs
- connection of an external A4 printer
- connection to a PC (RS 232) and by storing of reports into the computer memory by the “Printer Archive” software
- sterilizer connection to a computer network (LAN) together with the software application
- using of the bar code scanner

Service accessories

The automation is equipped by large software for easy monitoring, maintenance and testing (interactive charts of pipe interconnection, testing programmes enabling the testing of device safety features, calibrating adjustments etc.). The device enables to plan detailed service activities with subsequent reminder on the display or the printout.

- The plastic and constructional shape of the device control part with possibility of a tipping adjustment of the touch control panel gives to it the unique form of the working desk, which, in standstill phases, returns automatically into its original rest position and therefore it could not be damaged during the normal operation. It secures the high-quality readability and easy operating personnel work regardless the figure height.
- As standard instrument accessories is the built-in thermo-printer for documentation of sterilization processes with possibility of print from one of four graphical programmes.



Wide offer of working programs according to the specific user needs

- Laboratories
- Pharmacy
- BSL 3, BSL 4
- Bio models (laboratory animals breeding)

The STERIVAP HP steam sterilizer can be used for sterilization of solid, porous and plastic materials, processing and subsequent sterilization of agars (substrates), sterilization of solutions in open and closed bottles, disinfection of materials, waste decontamination, etc.

The instrument enables the installation of up to the 20 fixed programmes in the basic version, according to the specific customer needs.

Standard programmes

- “Heating” 134 °C/ 1 min
- Sterilizing programmes with possibility of validation**
- “Universal” 134 °C/ 7 min, with following drying
- “Universal Containers” 134 °C/ 7 min, with intensive drying
- “Rubber” 121 °C/ 20 min, with following drying
- “Instruments Quickly” 134 °C/ 4 min, with following short drying, for non packed instruments for immediately following use
- Testing programmes**
- “Bowie&Dick Test”
 - Steam penetration test – 134 °C/ 3,5 min
- “Vacuum Test” – Chamber air tightness test
 - compensatory phase length is 5 min, test length is 10 min

The installed programmes could be later, anytime, modified by a **chip card system** directly at the user. On the chip cards, the programmes developed and tested by producer are saved, based on the order.

Special laboratory software enables to the operating personnel to make individual modifications of already programmed sterilization programmes.

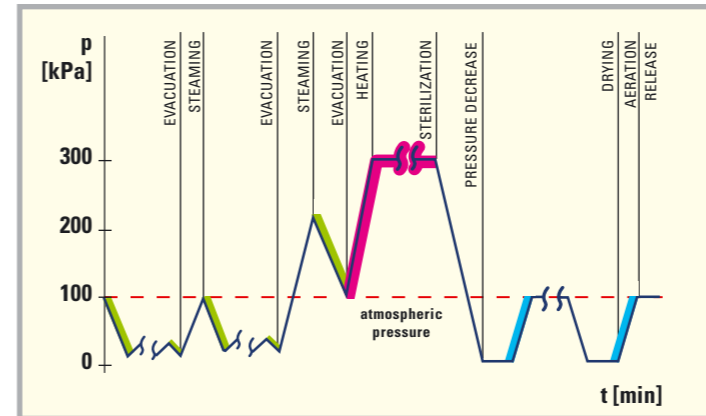
- The user can modify:
- sterilisation temperature ± 3 °C from the set values, the upper limit is 135 °C
 - sterilisation time within 0–600 min
 - drying phase length 0–60 min
 - number of drying phases within 0–10 phases
 - evacuation number within 0–10 phases
 - in case of solution programmes, the cooling temperature, the upper limit is 120 °C
 - in case of programmes controlled by Fo parameter, the Fo parameter within 0–600

We also offer **special UNICONFIG software** enabling to modify all values of the sterilisation cycle (evacuation, vacuum depth, exposition, drying) and to set the values of the sterilisation cycle temperature and time. (The verification by producer is necessary.)

Optional programmes

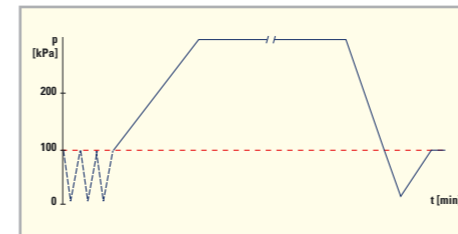


Special programmes (without necessity of using of PT 100 sensor)

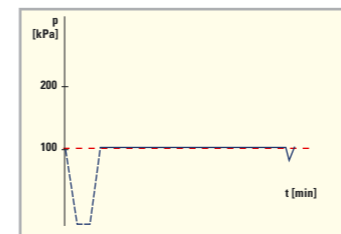


- Endoscopes
- Prions
- Creutzfeldt
- Laparoscopes
- Waste decontamination
 - laboratories (with using of the bacteriological filter and with the condensate sterilisation); BSL 3, BSL 4 – cabs; waste in the laboratories
- Disinfection 105°C
- Optical instruments
- Plastic cells
- Wooden dust

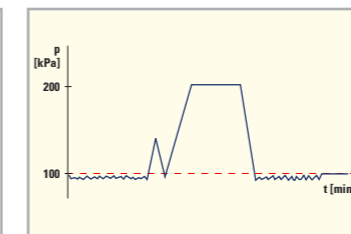
- Legend**
(suitable for BSL 3, BSL 4 operations)
1. chamber evacuation through the bacteriological filter
 2. condensate accumulation with continuous sterilisation
 3. air sucking through the bacteriological filter



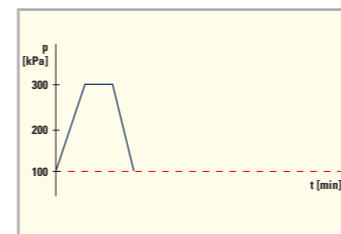
Decontamination ● ●



Steaming ●
75° C or 100° C/10 min.
(Arnold-type programmes)

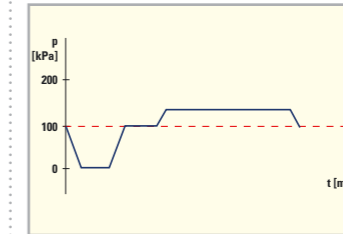


Alloplastic ●

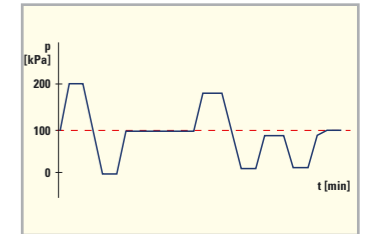


Passage (of the material through the chamber) – for material transport from clean to non-clean side, with possibility of disinfection by steam ●

– with special charge testing (illustrative charts)



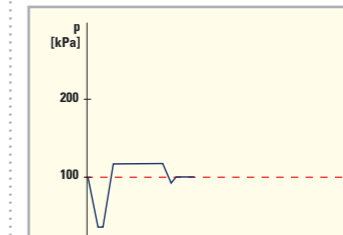
Methylene test ●



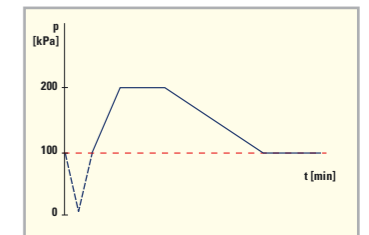
Crash test / Showering ●

Special programmes with possibility of use of the movable PT 100 sensor

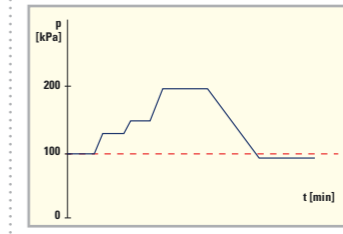
– with spontaneous cooling



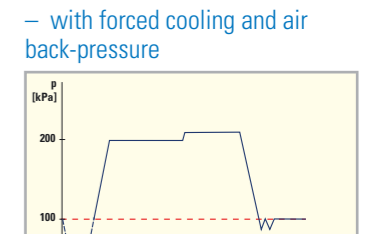
Animal food ●
(possible individual sensor use according to the food type)



Solutions with spontaneous cooling ●
Solutions with evacuation ●
Solutions controlled by Fo parameter ●



Agars (substrates) with spontaneous cooling ●

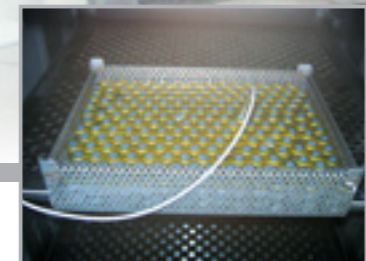


– with forced cooling and air back-pressure

Solutions with forced cooling and air back-pressure ● ●
Solutions with forced cooling and air back-pressure and air back-pressure controlled by Fo parameter ● ●
Ampoules ● ●
Agars (substrates) with forced cooling, with possibility to boil in soft ●

Special programmes

- with bacteriological filter on the sterilisation chamber input/output and with continuous condensate sterilisation (suitable for ● BSL 3, BSL 4 operations)
- with wide scale of following specified optional accessories



Modular system Optional accessories

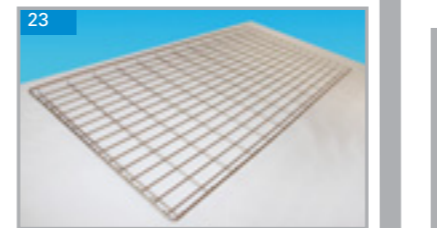
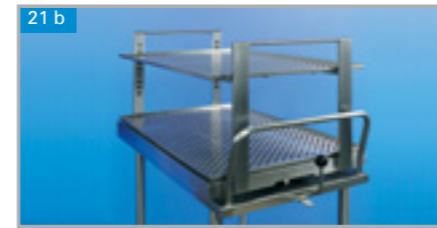
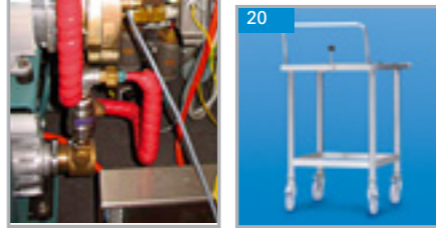
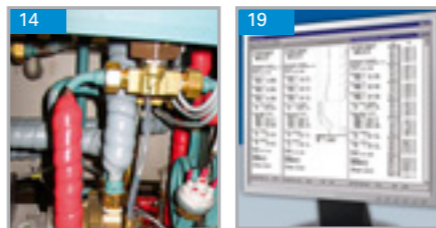
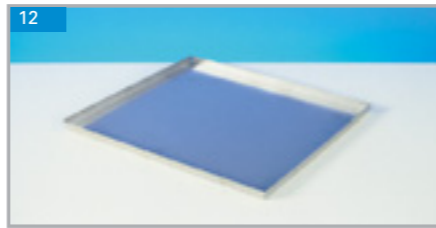
- both single and double (interleaf) door type, stainless steel sheets, possibility of mounting into the stainless steel separating walls, mirror device variant, which, in case of installation of more devices close by another, enables combination of two service areas into the one
- optional steam source
 - FD – steam supply
 - ED – steam supply from an internal steam generator
 - FDD – steam supply from internal steam/steam exchanger (steam/steam exchanger is supplied by technical steam)
 - FD ED – steam supply from an external medicinal steam source, or steam supply from an internal steam generator (original FED)
 - ED FDT – steam supply from an internal steam
 - FD FDT – steam supply from an external medicinal steam source, and heating jacket supply by technical steam

- gastight "Bio-Seal" device version with possibility of an independent and permanent sealing of chamber door by pressurised air
- special stainless steel, sterilisable filters on the sterilization chamber input and output
 - bacteriological, filter on the chamber output (decontamination inclusive the condensate sterilization)
 - bacteriological, sterilisable air-inlet filter on the air supply side with the preparation for the integrity test
- PT 100 temperature sensor
- chip cards system
- draining bath under the device (the bath is standard for the size 96xx)
- possibility of mounting of an equipment for the condensate aftercooling
- "air detector" for the continual monitoring of the air and non-condensable gases presence in the sterilization chamber during every sterilization programme for maximal sterilization security against the routine monitoring by test programmes (Vacuum and Bowie&Dick test) made only daily before the starting of normal operation (HTM 2010)



- polishing of internal sterilization chamber surface with roughness of Ra 1,25 µm (Ra 50 µinch); 0,8 µm (Ra 32 µinch); Ra 0,125 µm (Ra 5 µinch)
- system of transport and charging cars
 - frame for the charging car
- system for manual material inserting
 - sieves, shelves conduction
- stainless steel valves with screwed or welded necks of the CLAMP type
- stainless steel safety valves

- supplementary mechanical manometers
 - on the charging side
 - on the withdrawal side
- draining bath under the device
- big touch display "touch screen" 12" on the withdrawal side too
- bar code reader
- special Printer Archiv software for charges documentation in the PC



- software for sterilizer connection to the computer network (LAN)
- chamber passivation (pickling)
- laboratory software enables to the operating personnel to realize the individual modifications of already programmed programmes
- special programmes – "Solutions sterilization with the spontaneous jacket cooling and with the supporting air pressure" (contains also the movable PT 100 temperature sensor)
- "Sterilization process controlled by the Fo value"
- special UNICONFIG software enabling to modify each sterilization cycle phase (evacuation, vacuum depth, exposition, drying) and to set the temperature and sterilization cycle time (verification with the manufacturer is necessary)
- mediums monitoring – continual monitoring of the input mediums parameters (pressurised air, both demi- and cooling water too)

Optional equipment

- transport car
- charging car
 - universal
 - special
 - solution
- stainless steel shelf police
- stainless steel sieve (except for 446 and 636)
- hook for charging cars withdrawing
- wide scale of laboratory accessories – bags and sacks for contaminated material, sterilisation baskets, plastic containers, test tubes, Petri dishes etc.
- basic IQ, OQ, PQ documentation for validation according to GMP and GLP
 - tests and validations according to the EN 285+A2 and EN ISO 17665-1 standards



- device operation regulation – watching of energetic maximum in case of connection of more devices to the mains
- tropical version for countries with temperature
- optional electrical connection depending on the requested mains parameters

- air compressor inclusive the air accumulator and cabinet (for devices with the aditivum "Solution programme with compulsory jacket cooling and with the supporting air pressure" is necessary the more powerful compressor eg. Ekom plus 2 V)
- water treatment device for demi-water preparation
- monitoring starting packet of indicators
- optional language version for communication with the device...

Ensuring of customer services

The user service and support are fully secured by the wide-world net of BMT Medical Technology s.r.o. contract partners. We have a wide net of branded service working places, connected to the HOT-LINE service, which secures the quick reaction on the customer inquiries and requests. For securing of the user comfort and for possibilities of the quick and high-quality service intervention, a special diagnostic programme was developed. We offer the ON-LINE internet sterilization device diagnostics and monitoring, which offers a quick and direct communication with the device and ensures the continuous, trouble-free operation of the working place. This all grants the low operational costs and the long device lifetime.

Environmental awareness

The device meets all current environmental requirements. It does not load the working place and the environment too. The outer insulating sterilization chamber jacket is made from the flame galvanised sheets with high-quality insulation, which considerable lowers the thermal loses, saves the electrical energy. The two-stage, noiseless suction pump with standard built-in device for water saving saves ca 80 % of operating costs. The unique high power steam generator construction with an automatic desalinisation ensures the short sterilization cycles times and permanently high steam quality. The unique divided double sterilization chamber jacket with a new steam filling system, which reduces the demi-water consumption by approx. 15 %.

The materials assuring high device lifetime are used during the production. The device may be optional equipped by the accessory for wastewater aftercooling, what enables the setting of its waste temperature. Also during the shop working, the ecological processing

methods are used. All important device parts and packing too are recyclable. The device consists of 95 % of steel, 4 % of other materials, 1 % electrical material and plastics. The ecological liquidation is made, after the disassembly, by an authorised person according to the EU rules, which correspond to the WEEE directive (Waste Electric and Electronic Equipment).

Technical parameters



Model SP HP IL	Dimensions (hwxwd) [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			ED	FD	ED	FD	Water [m³]	Demineralized water [m³]**	Steam [kg]	Electric energy [kWh]**	Electric energy [kWh]*
446-1	480x450x 700	1918x1200x 970	1	148	700	650	24,5/63	2/10	0,06	0,006	5,0	5,0	0,3
446-2	480x450x 700	1918x1200x 990	1	148	750	700	24,5/63	2/10	0,06	0,006	5,0	5,0	0,3
636-1	670x350x 700	1918x1000x 970	2	160	740	690	24,5/63	2/10	0,06	0,006	5,0	5,0	0,3
636-2	670x350x 700	1918x1000x 990	2	160	770	720	24,5/63	2/10	0,06	0,006	5,0	5,0	0,3
666-1	700x650x 690	1918x1300x 970	4	314	1030	850	38/63	2/10	0,07	0,008	7,0	6,0	0,4
666-2	700x650x 690	1918x1300x 990	4	314	1100	920	38/63	2/10	0,07	0,008	7,0	6,0	0,4
669-1	700x650x 990	1918x1300x1270	6	453	1130	950	47/80	2/10	0,08	0,009	9,0	7,5	0,4
669-2	700x650x 990	1918x1300x1290	6	453	1200	1020	47/80	2/10	0,08	0,009	9,0	7,5	0,4
6612-1	700x650x1340	1918x1300x1620	8	610	1330	1150	48/80	3/10	0,09	0,011	11,0	9,0	0,6
6612-2	700x650x1340	1918x1300x1640	8	610	1400	1200	48/80	3/10	0,09	0,011	11,0	9,0	0,6
6618-2	700x650x1940	1918x1300x2240	12	885	1750	1500	66/100	4/16	0,20	0,013	15,0	15,0	1,4
9612-1	1000x650x1340	1918x1900x1620	12	868	1750	1500	66/100	4/16	0,20	0,013	15,0	16,0	1,4
9612-2	1000x650x1340	1918x1900x1640	12	868	1850	1600	66/100	4/16	0,20	0,013	15,0	16,0	1,4
9618-1	1000x650x1940	1918x1900x2220	18	1260	2240	1930	76/125	5/16	0,30	0,025	23,0	23,0	1,7
9618-2	1000x650x1940	1918x1900x2240	18	1260	2450	2200	76/125	5/16	0,30	0,025	23,0	23,0	1,7
9621-2	1000x650x2300	1918x1900x2600	21	1490	-	2400	-	5/16	0,40	-	26,0	-	2,0

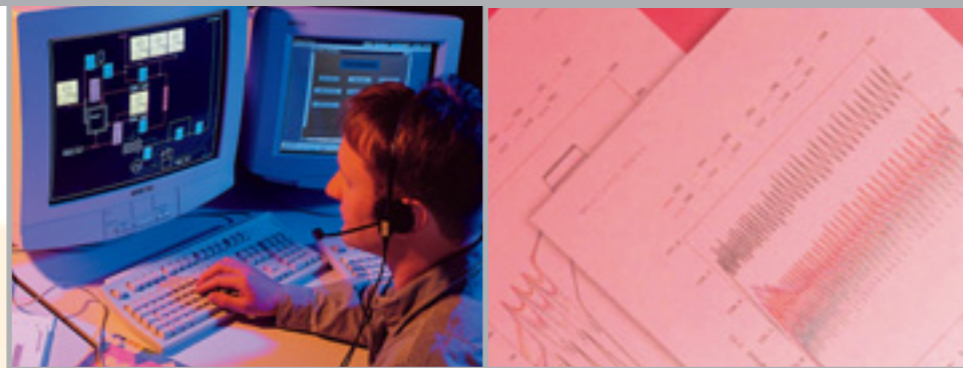
Model 9612, 9618, 9621 – with horizontally sliding door(s).
 Model xxx-1 single-door type, model xxx-2 double-door type.
 Connecting voltage 3P/PE 400 V, 50/60 Hz.
 Noise level max. 78 dB.
 Model 6618, 9612, 9618, 9621 – steam generator is placed above or beside the sterilizer

* Model FD – steam of central source.
 ** Model ED – own integrated steam generator.
 Model 9618 – only FD model



Changes in the design and make reserved.

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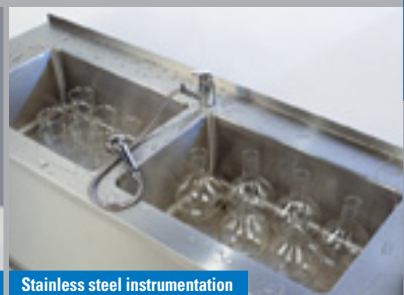
Small steam sterilizers 15 – 25 litre



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



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