...for 100% quick, effective and assured solutions.

mixta

STEAM STERILIZER

MBS Series

MİXTA MAKE IT
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Workflow of Sterilization

MİXTA Solutions starts with collecting the used equipment from OR to transport the CSSD Department for the stages of Reception from the Sterile Supply.
Sterilization process starts at the "dirty area" of the Central Sterile Supply Department. Means of this stage is Cleaning of the used equipment/materials wither manually or by machine in cleaning either by scrubbing the instrument manually using a surfactant or detergent and water, or by using one of our ultrasonic cleaners. Manual cleaning methods include soaking, or spray-gun rinse and/or ultrasonic cleaning before being loaded into the washer-disinfector in stage of Disinfection.

After the cleaning stage, sterilization process continues with the Packaging & Inspection in the "clean area". In the clean area, sterilization process follows Sterilization through the steam sterilizers (MİXTA MBS Series Steam Sterilizers) renders materials sterile for quality patient care.

In the last stage of sterilization process is Sterile Store, sterilized packs being placed into storage in the "sterile area" until they are ready to be transported to operating theatre and other departments in closed trolleys to sterile supply again.





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Application and Description:

MİXTA steam sterilizers are designed for efficiency and superior workflow which are able to sterilize all materials that are heat and moisture resistant, packaged and unpatterned, which can be sterili zed by pressurized saturated steam.

Usage Areas:

- Operating theaters and laboratories of hospitals,
- Universities are required to attend faculties of science,
- Veterinary medicine, agriculture, dentistry and pharmacy,
- Medical waste treatment plants,
- Microbiology and research laboratories of industrial establishments
- Food, medicine, cosmetics etc.

Door System:

The door is resistant to extreme pressure. Heat insulation materials needed for heat losses are covered. The movement of the door is a vertical axis (down-up) and it works extremely quietly with the pneumatic system. When the door is closed, there is a safety system that prevents any cistern squeeze and allows the door to move in the opposite direction. Pressure and vacuum sealing of the door is provided by silicon based seal which is resistant to the temperature of the device and door sealing is provided by applying vapor pressure to the gasket channel. The door sealing gasket can be easily replaced without having to remove any part of the device and the gasket is a maintenance-free type. The door seal's replacement time is automatically displayed on the 7 "video graphic touch screen LCD. In addition, the sterilization room can not open the door without the pressure of the press. Easy loading and unloading operations are carried out with the door which leaves the whole of the sterilization chamber of rectangular shape prism open. In addition, with the safety system preventing sudden opening of the door, the door is prevented from operating without closing the door.

Control Panel

• Full automatic, micropocessor controlled with PLC,
• Preasure measurement:-1.0...+5 Bar (+0.001 bar),
• Heat measurement: 0ºC ... 150ºC (+ 0.1°C),
• Visual, written and audio warning system monitoring,
• Preasure error (vacum), steam error (heat),
• Power cut (audio and visula warning),
• UPS or Batery System.

Programme Phases

• The device can be started manually after the password is entered
• Manual Vaccum, Steam, Air etc...
• All pressure and temperature values can be seen from touch panel.

• Date-Time
• The name and the name of the program being run,
• Pre-vacuum time and phase number,
• Preheating temperature,
• Sterilization cell temperature,
• Sterilization cell pressure,
• Sterilization time,
• Drying time,
• Error messages that may occur in the system,
• Date, time and total time information at the end of the sterilization process,
• User signature repository at the end of the process.

• Programme name and number
• Sterilizaiton phase
• Cell, jacket, jenerator and seal preasures
• Cell, jacket, jenerator and seal heats
• Total sterilization time and remaining time
• Sterilization preasure and heat measurements
• Sterilization counter
• Sterilization steps
• Errors and cause of error
• Full automatic, PLC control
• Optional remote access via ethernet
• USB port RS 232 RS485 ETHERNET module

Technical Details:

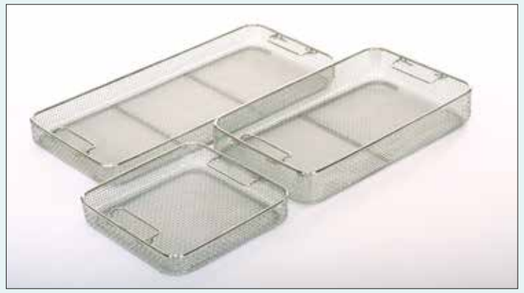
Preasure measurement:
• -1.0...+5 Bar (+ 0.001 bar)
Heat measurement :
• 0ºC ... 150ºC (+ 0.1 °C) Visual, written and audio warning system,
• Preasure error (vacum), steam error (heat),
• Power cut (audio and visula warning),
• Ability to watch the programme phases on computer,
• Data recording of work done.
• 121 °C to packing the rubber, liquid & thermosensitive materials,
• 134 °C to packing the solid materials as one layer simple packing,
• 134 °C textile,
• 134 °C
• Optional programming,
• Ability to add user programme,
• Ability to see all preasure and heat sensors on programme,
• Sleep mode and power saving mode,
• Automatic start upon user preference for preheating the chamber
• Vacuum test,
• Leakage test,
• Bowie & Dick Test, to ensure the correct air removal and the steam penetration on the load.

Water pump	Imported 0.75 hp pipe part 304 or 316 stainless steel
Steam installment pipes	304 or 316 stainless steel
Water installment pipes	304 or 316 stainless steel
Air installment pipes	304 or 316 stainless steel
Vacuum pomp	Imported flow speed 2900 cycle/min.
Pneumatic solenoid valve	Imported 304 or 316 stainless steel
Steam trap	Imported 304 Or 316 stainless steel
Safety valve	Sterilizaiton chamber, jacket, jenerator 304 or 316 stainless steel
Hepa filter	0.01 µm %99.999
Check Valve	304 or 316 stainless steel

The discharge of the device is by the heat exchanger system.

Thermal Printer

The thermal type printer located in the control unit is supplied with the following values as the cast:



Loading accessories whose top priority is to facilitate the work in the preparation area and subsequent loading / unloading into the sterilizer.
• Transport trolley,
• Stainless steel basket
• Loading trolley
• Shelves for loading cart

MİXTA Steam Sterilizater Specifications

			Chamber Dimension			Device Dimension			Generator		Requirements for Installation			
	Models	STU	Liter	Width	Height	Deep	Width	Height	Deep	Liter	Power KW	Electric KW	Water	Drain	Air
Double Doors	MBS 0160	1	160	400	400	1000	870	1650	1350	50	20	380 VAC	■	●	▲
	MBS 0200	1	200	500	500	800	970	1750	1150	50	30	380 VAC	■	●	▲
	MBS 0250	1	250	500	500	1000	970	1750	1350	50	30	380 VAC	■	●	▲
	MBS 0300A	2	300	500	500	1200	970	1750	1550	50	30	380 VAC	■	●	▲
	MBS 0300B	4	360	670	670	800	1140	1900	1050	50	30	380 VAC	■	●	▲
	MBS 0450	6	450	670	670	1000	1140	1900	1400	50	40	380 VAC	■	●	▲
	MBS 0540	8	540	670	670	1250	1140	1900	1600	79	40	380 VAC	■	●	▲
	MBS 0675	10	675	670	670	1550	1140	1900	1900	79	50	380 VAC	■	●	▲
	MBS 0810	12	810	670	670	1850	1140	1900	2200	89	80	380 VAC	■	●	▲
	MBS 0945	14	945	670	670	2150	1140	1900	2500	89	60	380 VAC	■	●	▲
Single Door	MBS 1160	1	160	400	400	1000	870	1650	1350	50	20	380 VAC	■	●	▲
	MBS 1200	1	200	500	500	800	970	1750	1150	50	30	380 VAC	■	●	▲
	MBS 1250	1	250	500	500	1000	970	1750	1350	50	30	380 VAC	■	●	▲
	MBS 1300A	2	300	500	500	1200	970	1750	1550	50	30	380 VAC	■	●	▲
	MBS 1300B	4	360	670	670	800	1140	1900	1050	50	30	380 VAC	■	●	▲
	MBS 1450	6	450	670	670	1000	1140	1900	1400	50	40	380 VAC	■	●	▲
	MBS 1540	8	540	670	670	1250	1140	1900	1600	79	40	380 VAC	■	●	▲
	MBS 1675	10	675	670	670	1550	1140	1900	1900	79	50	380 VAC	■	●	▲
	MBS 1810	12	810	670	670	1850	1140	1900	2200	89	50	380 VAC	■	●	▲
	MBS 1945	14	945	670	670	2150	1140	1900	2500	89	60	380 VAC	■	●	▲

■ : The device necessary for water (the reverse osmosis system at least 3 bar pressure 3/4 “)
● : The expense of the device connection (at least 2” pipe or galvanized pipe resistant to 150 degrees)
▲ : The air necessary for the device (1/2” minimum 6 bar, dry air)

General Futures

		Standart	Opsionel
General Futures	Chamber	6 mm 316 L Stainless Steel	6 mm 316 Ti Stainless Steel
	Jacket	3 mm 304 L Stainless Steel	3 mm 316 L Stainless Steel
	Generator	3 mm 304 L Stainless Steel	3 mm 316 L Stainless Steel
	Cover	10 mm 304 Stainless Steel	10 mm 316 L Stainless Steel
	Chassis	3 mm 304 L Stainless Steel	3 mm 316 L Stainless Steel
	Gasket Channel and Cover Bearings	50 mm 304 Stainless Steel Monolithic System	50 mm 316L Stainless Steel Monolithic System
	External Material	1 mm 304 L Stainless Steel	1 mm 316 L Stainless Steel
	Troyler	304 L Stainless Steel	316 L Stainless Steel
Control Systems & Prog.	Control System	PLC Microprocessor	PLC Microprocessor
	Display	7” Colourful Touch Screen	5”, 6” or 10” Colourful Touch Screen
	Printer	40 Column Thermal Printers	40, 60 or 80 Column Thermal and Cartridge Printer
	No of Preset Programs	8	20
	No of Test Programs	2	2
	No of Free Programs	10	50
	Minimum Vacuum Level	70 mm bar	70 mm bar
	Remote Control	No	have remote control via ethernet
	Port	Usb Ethernet Rs232 And Rs 485	Usb Ethernet Rs232 And Rs 485
Mechanical Insta.	Hepa Filter	0.01 µm %99.999	0.01 µm %99.999
	Vaccum Pomp	2,2 Kw 2900 cycle/minute	Stainless Steel pump 2,2 Kw 2900 cycle/minute
	Safet Valve	1/2” Brass Stainless Steel adjustable	1/2” Stainless Steel adjustable
	Control Valve	1/2” And 1 “ 304 L Stainless Steel	1/2” and 1 “ 316 L Stainless Steel
	Check Valve	1/2” And 1 “ Brass Stainless Steel	1/2” and 1 “ 304 L Stainless Steel
	Exchanger System	-	With Exchanger
	Water Level Control	With Stainless Prob	With Magnetic Sensor or Flap

Implemented Quality Management System, Standards and Directives:

- ISO 9001: 2008
- ISO 13485:2003
- EN ISO 14971:2012
- MDD 93/42AT
- EN 61010-1
- EN 285+A2
- EN 61010-2-040
- 2014/68/EU
- EN 62366

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MIXTA is the leader of Turkey's system integrator...

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