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LOW TEMPERATURE HYDROGEN PEROXIDE PLASMA STERILIZER

MPS 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 MPS Series Plasma 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.

mixta PLASMA STERILIZER
MPS Series

Plasma Sterilizer:

- Low Temperature Plasma Sterilizer is user-friendly, as the main sterilizing agent is very safe, remaining nontoxic residue (Water and Oxygen).
- Fast running cycle increases turnover rate the delicate and state of the art medical equipments in the hospital.
- This rapid turnover rate lightens the hospitals' financial burden, as they do not need to equip a number of redundant medical devices.
- The by-products after sterilization, water and oxygen, contribute Green Environment as well as guarantee user-safety, substituting for other sterilizations which use harmful materials.
- Low Temperature Plasma Sterilization is representative of all other kinds of Low Temperature Sterilization such as Ethylene Oxide or Formaldehyde.
- The temperature keeps lower than 60 and cycle time is under 1 hour, which prevents heat and moisture damages to sophisticated medical instruments, and prolongs the life expectancies of them.

The MİXTA Plasma Sterilizer is a sterilization technology based on plasma. Gas plasmas have been referred to as the fourth state of matter (i.e., liquids, solids, gases, and gas plasmas). The MİXTA Crystal Sterilizer is a self-contained stand-alone system of hardware and software designed to sterilize medical instruments and devices using a patented hydrogen peroxide gas plasma process.

Hydrogen peroxide vapor is generated by delivering aqueous hydrogen peroxide into the vaporizer where the solution is heated and vaporized. The hydrogen peroxide vapor is then introduced into the sterilization chamber, under sub-ambient pressure, where it is transformed into a gas-plasma by use of electrical energy.

MİXTA Plasma Sterilizer especially contains independently patented Rapid Warmup and Dry System to boost sterile ability.

- Rapid Warmup & Dry System
- Convenient and Safe Sterilizing Agent
- 7" full touch LCD, Easy Monitoring the Cycle Information
- Plug and Play
- USB History Memory
- Automatic PM Alarm System
- Built in Thermal Printer, Printout with Actual Cycle Information
- Login Function
- Monitoring System
- Auto Interlock & Open System
- Mobility
- PLC
- Full automatic / button and touch screen
- Colour TFT, Touchscreen LCD
- 7"
- Touchscreen
- 40 Characters / Line Thermal Printer
- RS 232 Port / USB , Ethernet
- Visiual, Audible and Printed
- 200 PCS Cycle
- Touchscreen
- Easy positioning on 4 swivel castors and hight adjustable legs for uneven floors.

Data logging, interoperability

Sterilization process validation logs may be transferred via SD memory card, USB connection or by Ethernet TCP / IP connecti ons to any LAN or WAN network such as the Internet.

General Specification

Sterilization Validation according to ISO 14937.
MİXTA, performs sterilization validation followed by ISO 14937.
ISO 14937:2009 specifies general requirements for the characterization of a sterilizing agent and for the development, validation and routine monitoring and control of a sterilization process for medical devices. The purpose of validation is to demonstrate that the sterilization process established in process definition can be delivered effectively and reproducibly to the sterilization load. Validation consists of a number of identified stages: installation qualification, operational qualification and performance qualification.

• Installation qualification is undertaken to demonstrate that the sterilization equipment and any ancillary items have been supplied and installed in accordance with their specification.

• Operational qualification is carried out either with unloaded equipment or using appropriate test material to demonstrate the capability of the equipment to deliver the sterilization process that has been defined.

• Performance qualification is the stage of validation that uses product to demonstrate that equipment consistently operates in accordance with predetermined criteria and the process produces product that is sterile and meets the specified requirements.

Common Sterilized Devices:

- Electrocautery Instruments
- Dopplers
- Laser probe
- Defibrillator paddles
- Thermometer
- Ophthalmic lenses
- Harmonic cable
- Laryngscope blade
- Shaver hand pieces
- Fiber optic light cable
- Laryngscope & blades
- Rigid scope for optics
- Rigid scope
- Flexible endoscope

Installation Requirements:

1. "Tank type" sterilant is safe for users to store, to deliver, and to use.
2. The automatic system for changing and installing sterilant tank is convenient and safe for users.
3. MİXTA tank type sterilant does not need to be replaced often, as it can be used scores of times.

7" full touch LCD, Easy Monitoring the Cycle Information.
MİXTA, 7"full touch LCD monitor provides with all functions of the machine using simple letters, pictures, and icons.

User can monitor the actual temperature and pressure from the graph on the monitor.

Rapid Warmup & Dry System:

1. The world's first patented "Rapid Warmup and Dry System" allows to overcome the humidity-related problem.
2. MİXTA automatically removes residual moisture through the enhanced drying performance for medical devices in warm up phase.
3. Rapid Warmup and Dry System" gets rid of Cold Points and maintains same temperature inside chamber, which is very effective for sterilizing the complicated medical devices with its strong penetration power.

MİXTA, provide User ID and PSW, so that hospital can manage users

Plug and Play

MİXTA warming up time is very rapid (Maximum 15 min) after main power is on, so that standby power consumption is zero during off-duty or overnight.

Automatic PM Alarm System:

MİXTA provide alarms to prevent from irregular maintenance. Automatic PM Alarm System is very useful for users and engineers to be noticed. MİXTA sterilization history can be downloaded to your USB memory stick, and maintained at your convenience. Furthermore, it can be remote-controlled by its own out-of-state network system.

Installation Condition: At least 60 cm. space is needed on both lateral sides of the device to provide an effective technical service. Exhaust fan or ventilation funnel needs to be placed above the device for an effective evacuation of heat !

Safety and Quality:

Built in Thermal Printer, Printout with Actual Cycle Information Built-in thermal printer uses 60mm (Ø) Roll paper. Users do not need to replace it often.
The printout from this printer provides temperature, pressure with the cycle graph on the paper.

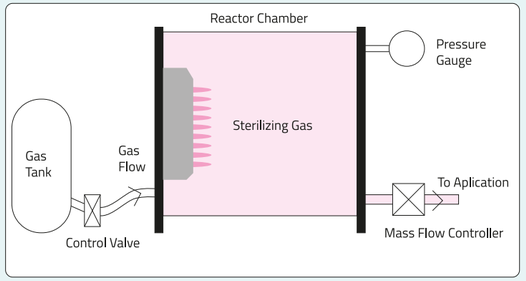
Monitoring System:

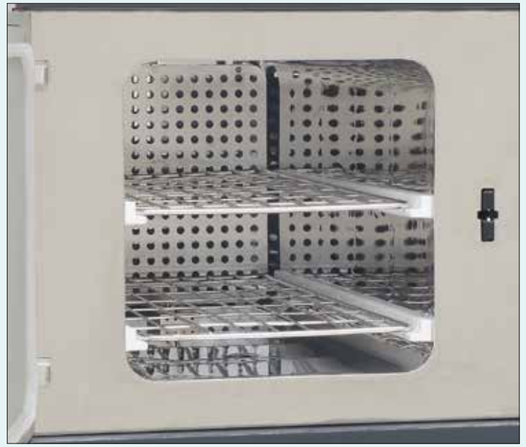
1.Cycle temperature, pressure, and sterilization cycle status can be remotely monitored.
2.Thanks to the monitoring system, MİXTA can be main-tained and upgraded easily.

Auto Interlock & Open System:

One gentle push makes the chamber door locked, and the chamber door can be opened automatically when the door sensor detects finger movement. MİXTA extraordinary user friendly functions provide convenient and safe environment.

Medical Devices Directive	MDD 93/42/EEC - 2007/47/EC
Medical Devices Class	Class 2b, acc. to EC MDD 93/42/EEC 2007/47/EC (Annex lX)
Low Voltage Directives	2006/95/EC EN 60601-1
Electromagnetic Compatibility Directives	2004/108/EC EN 60601-1-2
Plasma Sterilizer Devices	EN ISO 14937 Series Standard
Quality Management System Requirements	ISO 9001
Medical Devices Regulatory Requirements	ISO 13485
Enviroment Management System	ISO 14001





Item / Description		MPS 1100	MPS 1120	MPS 1150
Sterilizing Agent		Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide
		25 Cycles / Bottle	20 Cycles / Bottle	15 Cycles / Bottle
Total Cycle Time	Quick	25+5 Min	30+5 Min	40+5 Min
	Standard	35+5 Min	40+5 Min	50+5 Min
	Special	45+5 Min	50+5 Min	60+5 Min
Cycle Temperature		50±5	50±5	50±5
SAL (Sterility Assurance Level)		10-6	10-6	10-6
By-Products		Oxygen And Vapor Water Only	Oxygen And Vapor Water Only	Oxygen And Vapor Water Only
Lumen Claims		Rigid Lumen & Flexible	Rigid Lumen & Flexible	Rigid Lumen & Flexible
		Lumen, Endoscopes	Lumen, Endoscopes	Lumen, Endoscopes
Chamber	Type	Rectangular	Rectangular	Rectangular
	Material	Stainless Steel(SUS)	Stainless Steel(SUS)	Stainless Steel(SUS)
Dimensions	Overall	680mm(W) x 1600mm(H) x 930mm(D)	680mm(W) x 1600mm(H) x 980mm(D)	680mm(W) x 1600mm(H) x 1030mm(D)
	Chamber	400mm(W) x 400mm(H) x 640mm(D)	400mm(W) x 400mm(H) x 820mm(D)	400mm(W) x 400mm(H) x 940mm(D)
Volume		Total: 100 Liter	Total: 130 Liter	Total: 150 Liter
Weight		280kg	300kg	350kg
Control		Microprocessor & Windows CE Embedded		
Cycle Information		Screen, Printer, USB, 100/10Mbps Ethernet(Option)		
PM Cycle		Automatic Alarm & Setup		
Electrical		110V/220V, 50/60Hz, 1Phase, 3000W		
Installation Requirements		Gront, Rear: 100cm Left Side, Right Side: 10cm Placement: Built-in Wheels Provide Mobility		
Room Conditions		5 ~ 40, 0 ~ 95%RH(Non-Condensing)		
Printer		Built-in Thermal Printer(60Ø Roll Paper) Cycle Parameters (Temp, Pressure, Time, Daily&Total Cycle, Etc) Alarm & Error Display		
Others		Emergency Stop(Front),Operator ID Login, Self-Diagnosis, Multi-Language, RFID Coding System		

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PASLANMAZ ÇELİK HASTANE EKİPMANLARI
STAINLESS STEEL HOSPITAL EQUIPMENTS

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Mixta, Türkiye'nin öncü sistem entegratörü...

Mixta, anahtar teslim güvenilir çözümler sunar...

Mixta markalı ürünlerde vazgeçilmez detaylar...

Mixta, profesyoneller için inovatif fikirler...

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