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Steam Sterilizer

Eliminating the Microorganisms

Steam Sterilizer (Cylindrical)



Steam Sterilizer (Rectangular)



Rectangular Steam Sterilizer Double Door



Cylindrical Steam Sterilizer Double Door



Rectangular Steam Sterilizer Single Door



Cylindrical Steam Sterilizer Single Door



Cylindrical Steam Sterilizer Single Door



Steam Sterilizer (Cylindrical Vertical)



Vertical Autoclave Cylindrical



Autoclave - Vertical Vertical Cylindrical Pressure Autoclave

Steam Sterilizer

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LuxMed®'s line of healthcare sterilizers are designed for hospital operating rooms, central sterile supply departments, ambulatory surgery centers, dental schools, and other clinical settings. Autoclaves come standard with vacuum, liquid, gravity and flash cycles to sterilize surgical instruments, utensils, gowns, wrapped/unwrapped goods and other healthcare instruments and supplies. All sterilizers are equipped with reliable non-proprietary components, maximizing "uptime" while providing an ultra low total cost of ownership. Autoclaves continue to be the first line of defence against infection and LuxMed® takes this responsibility seriously.

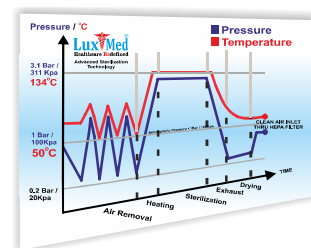


Rectangular Steam Sterilizer

Cylindrical Steam Sterilizer

Single Door

Double Door



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LuxMed[®] horizontal, high pressure, high vacuum steam sterilizer, rectangular type with vertical Double door, with steam generator and fully automatic operation.

Chamber and Jacket	Size : Ref. Inline Table A and B
	Volume : Ref. Inline Table A and B
	Working pressure : 2.2 kg
	Working temperature : 121°C to 135°C
	Material : SS 304
	Chamber is fabricated with full argon / LASER welding and is made in round corners for easy cleaning and is given a 2% slope for full drainage of the condensate. Chamber is provided with safety valve and compounding gauges on both sides.
	Pure steam will be used in the chamber for sterilization purpose.
	Chamber is provided with SS 304 railing of circular cross section and is easily removable for easy cleaning.
Parts and Accessories	Water Based Vacuum Pump - Pre- and Post Vacuum operation (Kirloskar 1HP Three Phase Monoblock Vacuum Pump, Model KV-20)
	Water Filling Water Pump- Auto Water Filling System (Kirloskar - Model - Chotu 0.5HP Water Pump)
Chamber Baffles	SS 304
Jacket	Material : SS 304
	Working pressure : 2.5 kg
	Working temperature : 138°C.
	To maintain uniform heating in the sterilization space.
Insulation of Shell	The entire equipment including doors is insulated with 50mm thickness Resin Bonded Glass Wool & cladged with SS304 sheets. With this, the skin temperature of the equipment does not increase more than 55°C.
Door handle and Lever	Silicon Cover on manual door handle and lever.
Steam Generator	Steam Generator of Ref. Inline Table A and B is provided underneath the chamber which will generate and provide dry saturated steam to jacket and chamber through steam dryer. Client to provide DM water to inbuilt steam generator to get the pure steam.
Door - Manual Opeation	The equipment is provided with manual operated Single Door / Double doors operation, The door is fabricated from SS 304 quality material & sealing is done through movable silicone gasket. Door status indications are provided on both doors. Door movement safeties are taken care during the operations, such as interlocking (in Double Door Model) of doors with process one door at a time and door obstruction facility.
Flush Mounting	A stainless steel 304 sheets are provided on the unloading side door & fixed on the wall to avoid cross flow of sterile air to loading area (complete sealing between sterile and non sterile area).
Valves & Piping	All valves & pipe lines which are connected to chamber will be of SS 304 quality whereas non-contact will be of SS 304 .The connectors are specially fabricated from solid bars & hence cracking of connectors is avoided. All pipe lines are argon welded with proper finish.
	All process valves are of sanitary construction. All utility connections are brought to one point, at the corner of the equipment for easy operation to the customer. All exhaust, drains are connected to a common drain.
	A removable screen plug is provided in the drain line to prevent clogging of the drain pipes and fittings.
	Pneumatic lines are of copper tubes with Brass/SS connectors.



Steam Sterilizer

Eliminating the Microorganisms

Temperature and Pressure Sensors	One nos. Class "A" temperature LuxMed® RTD sensors and one no. pressure sensor will be provided. All sensors are connected to the PLC and recorder. The system has a least count of 1°C.
Vacuum Pump	An adequate capacity Water Ring Vacuum Pump is provided along with the equipment to create the highest degree of vacuum in the chamber for air removal & for drying purpose. The pump is mounted on the equipment along with SS304 steam condenser, having copper cooling coil. This will avoid the direct steam entry to the pump.
	A 0.2 micron vacuum break filter is provided on the sterile area to suck the sterile air for breaking the vacuum after drying stage.
Condenser	Shell and tube type steam condenser made of S.S 304 is provided.
Stand	SS 304
Programmable Logic Controller	8 level password protection for password security is given. USB and Printer port is provided for data communication. Inbuilt real time clock is provided with date and time function. UPS is provided as Battery back-up, for automatic restart in case of power failure. Pen drive is provided for secure software storage. FO calculator for automatic calculation of lethality.
Carriage	SS 304 - 1 No.
Trolley	SS 304 - 2 Nos.
Programs	8 pre-set program and one flexible program i.e. 6 programs will be provided. Other recipes as per user requirement will be provided.
Validation Port	2 nos. validation ports will be provided with special leak tight ferrules is provided to accommodate 16 flexible Temp. sensors for the validation of the system.
Air Filter	0.2 micron
Data Recording	26 columns Thermal data printer and USB A - Port is provided to print the data, time, process parameters, process status and alarms., RS-485 Communication for IoT Cloud based data and remote monitoring system.
Safety and Alarms	High Temperature & Pressure Utility failure Vacuum pump trips Evacuation fails Heat up fails Opening of both doors simultaneously Opening of either door in process
Surface Finish	Chamber & doors are buffed & polished to 0.8 Ra value & parts other non contact to less than 180 grit.
Electric Supply	220 V, 3 ph, 50 Hz, AC
Documentation	Design Qualifications
	Installation Qualifications
	Operational Qualifications
	Maintenance & Service Manuals
	Required Test Certificates
	The above documents will be provided along with the equipment.



Steam Sterilizer

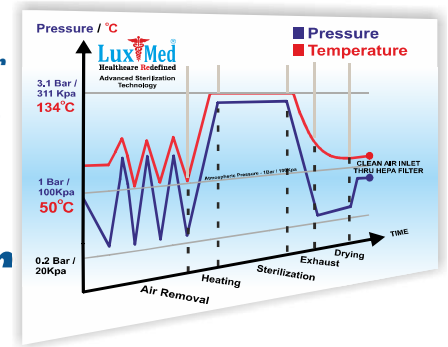
Eliminating the Microorganisms



Rectangular Steam Sterilizer

Cylindrical Steam Sterilizer

Rectangular Steam Sterilizer
Cylindrical Steam Sterilizer
Single Door
Double Door



Rectangular Steam Sterilizer Standard Series (A) - Single Door

Model	Chamber Dimension	Chamber Volume	Steam Generator (KW)	Steam Generator Capacity (Litres)	Floor Space (Width x Depth)	Packed
LM-SR-SD-180RT	460 x 460 x 920	195	9 KW	45	1130 x 1900	380
LM-SR-SD-250RT	460 x 460 x 1220	258	18 KW	60	1175 x 2210	600
LM-SR-SD-300RT	520 x 520x 1220	330	18 KW	60	1230 x 2400	750
LM-SR-SD-450RT	620 x 620 x 1220	469	18 KW	60	1230 x 2400	750
LM-SR-SD-800RT	620 x 920 x 1530	873	36 KW	90	1230 x 2400	750
LM-SR-SD-1600RT	920 x 1220 x 1530	1,717	72 KW	100	1460 x 3090	900

LuxMed[®] - We make customise product as per customer needs, above are our standard model for offering based on our market research for best utility and sizes needed for standard drum size.

Cylindrical Steam Sterilizer Standard Series (B) - Single Door

Model	Chamber Diameter (mm)	Chamber Depth (mm)	Chamber Volume (Litres)	Steam Generator (KW)	Steam Generator Capacity (Litres)	Floor Space (Width x Depth)	Packed
LM-SR-SD-80CY	410	620	80	9KW	45	1130 x 1900	380
LM-SR-SD-180CY	520	920	195	9KW	45	1175 x 2210	600
LM-SR-SD-250CY	520	1220	259	18KW	60	1230 x 2400	750
LM-SR-SD-270CY	620	920	277	18KW	60	1230 x 2400	750
LM-SR-SD-360CY	620	1220	368	18KW	60	1230 x 2400	750
LM-SR-SD-500CY	750	1220	511	30KW	90	1460 x 3090	900

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Steam Sterilizer

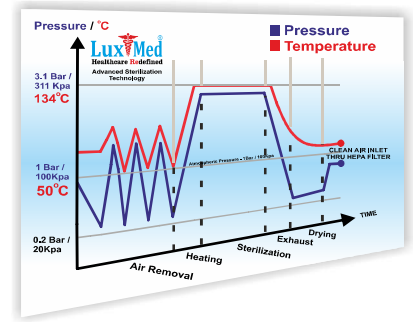
Eliminating the Microorganisms



Rectangular Steam Sterilizer

Cylindrical Steam Sterilizer

Rectangular Steam Sterilizer
Cylindrical Steam Sterilizer
Single Door
Double Door



Rectangular Steam Sterilizer Standard Series (C) - Double Door

Model	Chamber Dimension	Chamber Volume	Steam Generator (KW)	Steam Generator Capacity (Litres)	Floor Space (Width x Depth)	Packed
LM-SR-DD-180RT	460 x 460 x 920	195	9 KW	45	1130 x 1900	380
LM-SR-DD-250RT	460 x 460 x 1220	258	18 KW	60	1175 x 2210	600
LM-SR-DD-300RT	520 x 520x 1220	330	18 KW	60	1230 x 2400	750
LM-SR-DD-450RT	620 x 620 x 1220	469	18 KW	60	1230 x 2400	750
LM-SR-DD-800RT	620 x 920 x 1530	873	36 KW	90	1230 x 2400	750
LM-SR-DD-1600RT	920 x 1220 x 1530	1,717	72 KW	100	1460 x 3090	900

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Cylindrical Steam Sterilizer Standard Series (D) - Double Door

Model	Chamber Diameter (mm)	Chamber Depth (mm)	Chamber Volume (Litres)	Steam Generator (KW)	Steam Generator Capacity (Litres)	Floor Space (Width x Depth)	Packed
LM-SR-80CY	410	620	80	9KW	45	1130 x 1900	380
LM-SR-180CY	520	920	195	9KW	45	1175 x 2210	600
LM-SR-250CY	520	1220	259	18KW	60	1230 x 2400	750
LM-SR-270CY	620	920	277	18KW	60	1230 x 2400	750
LM-SR-360CY	620	1220	368	18KW	60	1230 x 2400	750
LM-SR-500CY	750	1220	511	30KW	90	1460 x 3090	900

LuxMed® - We make customise product as per customer needs, above are our standard model for offering based on our market research for best utility and sizes needed for standard drum size.



Steam Sterilizer (Cylindrical Vertical)

Eliminating the Microorganisms

Applicable to health services, scientific research, agricultural and other units, to the lab equipment, dressings, glassware, solution culture medium to carry out sterilization, also is a necessary test equipment food factory, drinking water plant to do QS, HACCP certification.

Application range:

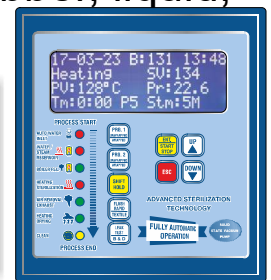
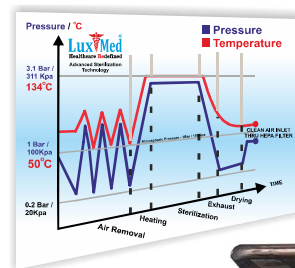
There are 6 fixed programs and 2 DIY programs according to different sterilization objects such as dressings, equipment, tools, rubber, liquid, culture medium, waste, etc.

Safety Features:

- * Over pressure. Safety valve can automatically open to release pressure.
- * Over temperature. The system will power off automatically.
- * Door sensor. Sensor at door closing position, to check the door status. If door is open, operation will stop.
- * Anti-dry out function. If water level is too low, system will power off and error code displays on screen.
- * Over current. Over voltage or electric leakage protection apparatus-air switch.
- * Door cover. The door is covered with safety shell made of thermal insulation material, which can protect operator from burning by heat and looks nice.

Technical Features:

- * Water inlet filter to keep high water quality.
- * Optional printer for recording sterilization data.
- * Jumbo LCD Display screen displays all steps of full process as well as error codes.
- * Independent quick service window, easy for repairing and maintenance.
- * Automatic selecting quick or low exhaust to avoid sterilization liquid overflowing.
- * Sterilization programs for dressings, equipment, rubber, culture medium, waste, etc.
- * Hand wheel type of quick-open door structure, self-expandable sealing ring, easy operating and safe.
- * Complete process of filling water, dynamic pulse exhaust, heating, sterilizing, draining and drying runs automatically.
- * Adopting certain temperature(98~102°C) exhaust method and dynamic pulse exhaust method to empty the cold air inside chamber for ensuring steam saturability.
- * Inner stainless steel water tank for water and steam to circulate inside. Steam dose not exhaust during sterilization, so as to keep the outside clean and dry
- * Drying function.
- * Optional stainless steel bucket and tray.
- * Standard 1 pc stainless steel tray.

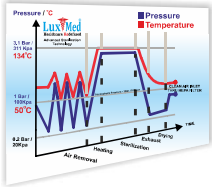


B-process
N- process
Dri-Tec drying
process.



Steam Sterilizer (Cylindrical Vertical)

Eliminating the Microorganisms



**B-process
N-process
Dri-Tec drying
process.**

Model	LM-BT50B	LM-BT75B	LM-BT100B	LM-BT120B	LM-BT150B	LM-BT200B
Capacity	50L	75L	100L	120L	150L	200L
Chamber Size(mm)	φ386* 514	φ386* 695	φ386* 875	φ386* 1055	φ500* 760	φ500* 1000
Chamber Material	S30408					
Designed Pressure	0.28Mpa			0.217Mpa		
Designed Temp	134°C			138°C		
Working Pressure	0.23MPa			0.217MPa		
Working Temp.	105~136°C			50~134°C		
Temp. Display Accuracy	0.1°C					
Timing Range	0~999min			0~99h		
Dynamic Pulse	0~9 times			/		
Exhaust Times						
Dynamic Pulse	105~136°C					
Exhaust Temp.						
Temp. Holding Range	45~60°C			50~100°C(program mable)		
Consumption	4.4KW	4.7KW	5.2KW	5.2KW	6KW	
Power Supply	AC110/220V±10%, 50/60Hz			380V, 50Hz/200V, 50/60Hz		
SS Basket	1 pc	2pcs	2pcs	3pcs	3 pcs	4pcs
External Size(W* D* H)mm	640* 550* 970	640* 550* 1080	640* 550* 1280	640* 550* 1380	650* 650* 1400	650* 650* 1700
Package Size(W* D* H)mm	750* 745* 1100	750* 745* 1240	750* 745* 1450	750* 745* 1540	800* 760* 1530	800* 760* 1720
Gross Weight(kg)	102	112	125	140	213	238



Vertical Autoclave (Cylindrical)

Eliminating the Microorganisms

Applicable to health services, scientific research, agricultural and other units, to the lab equipment, dressings, glassware, solution culture medium to carry out sterilization, also is a necessary test equipment food factory, drinking water plant to do QS, HACCP certification.

Application range:

There are 6 fixed programs and 2 DIY programs according to different sterilization objects such as dressings, equipment, tools, rubber, liquid, culture medium, waste, etc.

Safety Features:

- * Over pressure. Safety valve can automatically open to release pressure.
- * Over temperature. The system will power off automatically.
- * Door sensor. Sensor at door closing position, to check the door status. If door is open, operation will stop.
- * Anti-dry out function. If water level is too low, system will power off and error code displays on screen.
- * Over current. Over voltage or electric leakage protection apparatus-air switch.
- * Door cover. The door is covered with safety shell made of thermal insulation material, which can protect operator from burning by heat and looks nice.

Technical Features:

- * Water inlet filter to keep high water quality.
- * Optional printer for recording sterilization data.
- * Jumbo LCD Display screen displays all steps of full process as well as error codes.
- * Independent quick service window, easy for repairing and maintenance.
- * Automatic selecting quick or low exhaust to avoid sterilization liquid overflowing.
- * Sterilization programs for dressings, equipment, rubber, culture medium, waste, etc.
- * Hand wheel type of quick-open door structure, self-expandable sealing ring, easy operating and safe.
- * Complete process of filling water, dynamic pulse exhaust, heating, sterilizing, draining and drying runs automatically.
- * Adopting certain temperature(98~102°C) exhaust method and dynamic pulse exhaust method to empty the cold air inside chamber for ensuring steam saturability.
- * Inner stainless steel water tank for water and steam to circulate inside. Steam dose not exhaust during sterilization, so as to keep the outside clean and dry
- * Drying function.
- * Optional stainless steel bucket and tray.
- * Standard 1 pc stainless steel tray.



Vertical Autoclave (Cylindrical)

Eliminating the Microorganisms

Model	LM-VA50V	LM-VA75V	LM-VA100V	LM-VA120V	LM-VA150V	LM-VA200V
Capacity	50L	75L	100L	120L	150L	200L
Chamber Size(mm)	φ386* 514	φ386* 695	φ386* 875	φ386* 1055	φ500* 760	φ500* 1000
Chamber Material	S30408					
Designed Pressure	0.28Mpa			0.217Mpa		
Designed Temp	134°C			138°C		
Working Pressure	0.23MPa			0.217MPa		
Working Temp.	105~136°C			50~134°C		
Temp. Display Accuracy	0.1°C					
Timing Range	0~999min			0~99h		
Dynamic Pulse	0~9 times					
Exhaust Times						
Dynamic Pulse	105~136°C					
Exhaust Temp.						
Temp. Holding Range	45~60°C			50~100°C(program m able)		
Consumption	4.4KW	4.7KW	5.2KW	5.2KW	6KW	
Power Supply	AC110/220V±10%, 50/60Hz			380V, 50Hz/200V, 50/60Hz		
SS Basket	1 pc	2pcs	2pcs	3pcs	3 pcs	4pcs
External Size(W* D* H)mm	640* 550* 970	640* 550* 1080	640* 550* 1280	640* 550* 1380	650* 650* 1400	650* 650* 1700
Package Size(W* D* H)mm	750* 745* 1100	750* 745* 1240	750* 745* 1450	750* 745* 1540	800* 760* 1530	800* 760* 1720
Gross Weight(kg)	70	90	100	125	175	190



Autoclave - Vertical

Vertical Cylindrical Pressure Autoclave

Vertical Autoclave fitted with S.S/Gun metal lid having an inner & outer chamber made of S.S. 304 also fitted with vacuum breaker as a safety device. All Autoclaves are fitted with standard accessories as a radial lock, pressure gauge, steam release cock, and safety valve to work on to 220 volts.



Model: LM-STR- 50L

Chamber Size in (Dia x Depth)	Load	Capacity (Approx)
250 x 450 mm	2 KW	22 Ltr.
300 x 500 mm	3 KW	40 Ltr.
350 x 550 mm	4 KW	50 Ltr.
400 x 600 mm	5 KW	78 Ltr.
450 x 600 mm	5 KW	98 Ltr.
550 x 750 mm	6 KW	152 Ltr.



Steam Sterilizer

Eliminating the Microorganisms

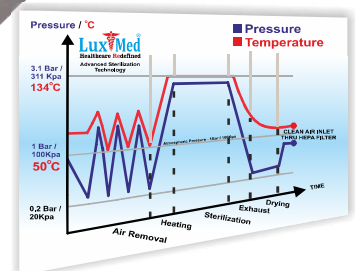
Sterile Zone

Non-Sterile Zone



Rectangular Steam Sterilizer

Double Door



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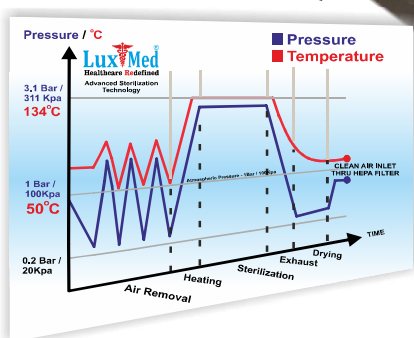
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**Non-Sterile
Zone**



**Sterile
Zone**



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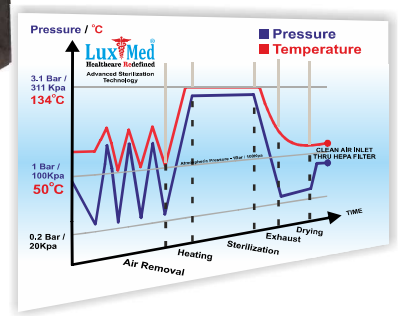


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Cylindrical Steam Sterilizer

Double Door



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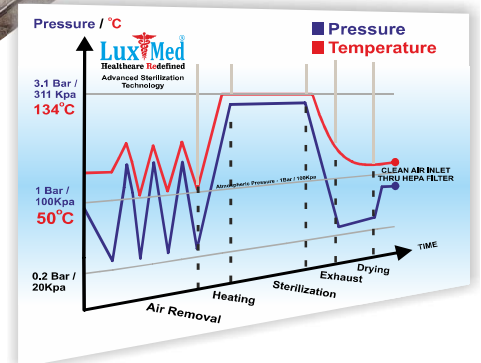


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Cylindrical Steam Sterilizer

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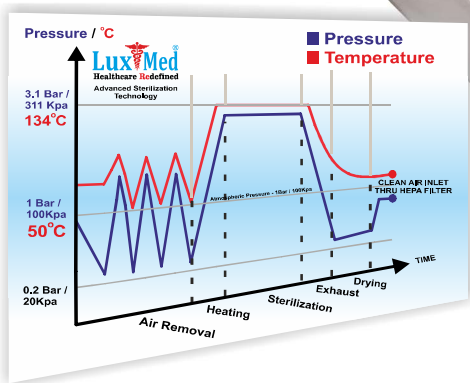
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Healthcare Redefined

Single Door



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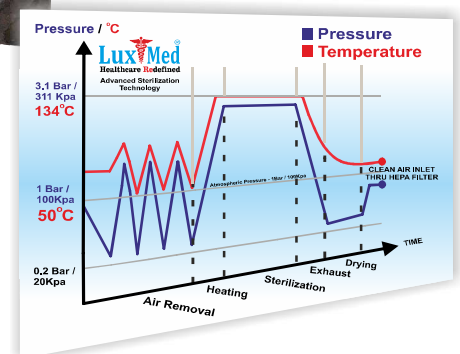
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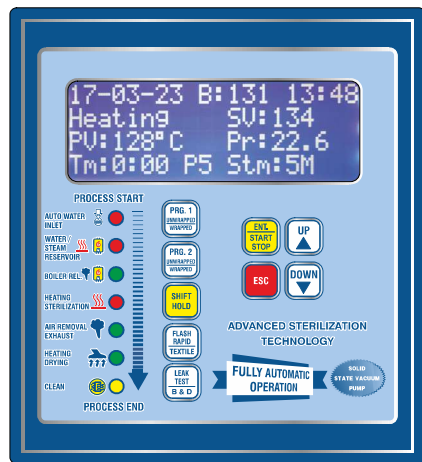
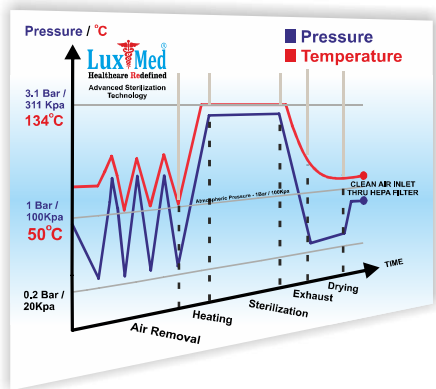


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**B-process
N- process
Dri-Tec drying
process.**



Vertical Autoclave - Cylindrical

Eliminating the Microorganisms

