LifeUltra Autoclave

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The World's Best Autoclave
LifeUltra™ is a 25L, mono chamber, tabletop autoclave that neutralizes microbial life such as bacteria, spores, viruses and other biological agents such as prions on the surface of load items to render it sterile for reuse. To achieve asepsis, the autoclave employs saturated steam at mission-critical temperatures, pressures, and for standardized time durations in a hermetically sealed chamber. LifeUltra™ is designed as a medical and laboratory electrical equipment intended to be used to sterilize heat and moisture-stable reusable loads (solid, porous, or hollow) that are loaded naked or wrapped. It is not intended to sterilize liquids, solvents or pharmaceutical products.

One Machine "3" Classes
LifeUltra™ bears a microcontroller with installed software that has pre-set programs to run standard B, S, and N sterilization cycles, test cycles, and customized cycles.

Built In Distiller
Saturated steam for sterilization is generated from distilled water produced in an onboard Water Still, so users can directly tap into municipal facility water (not more than 500 ppm TDS). For this innovative feature, the device is programmed to run an automatic water distilling cycle and a manual tank descaling cycle.

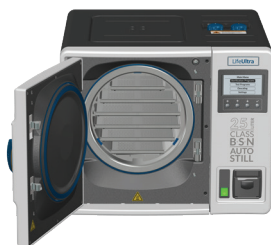### Integrated Air-Water-Steam System
Saturated steam for sterilization is generated from distilled water produced in an onboard Water Still, so users can directly tap into municipal facility water (not more than 500 ppm TDS). The integrated software manages the robust air-water-steam system through precision sensors, probes, and switches that monitor and control the device's vital parameters in real-time, assuring safe and successful results. The operation of the device is through a back-lit display and control interface.

FEATURES
Display Interface - 4.8" monochrome 240 x 128 pixel backlit LCDisplay

Control Interface - 3 discreet navigation and 1 discreet selection Button

Hard copy Output - Thermal Printer with 2¼" (57 mm) with spill-proof Paper roll holder, integrated manual cutter

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PROGRAMS		
	Gravity Sterilizing	N134 universal / N121 universal / N134 unwrapped flash / N134 wrapped flash
	Vacuum Sterilizing	B134 universal / B121 universal / B134 prion / S134 universal / S121 universal
	Custom Sterilizing	Class / Temperature / Sterilizing time / Drying time
	Test Programs	Bowie & Dick / Helix / Vacuum function
	Other Programs	Descaling Water Still

ELECTRIC		
	Voltage Input	115 V ~ 125 V AC / 60 Hz
	Current Drawn	18 A / 1 Ø
	Nominal Power Rating	1950 VA
	Electric Connector	C20 Socket / C19 Plug (IEC:60320) earthed & polarized
	Electric Circuit Breakers	20 A
	Thermal Circuit Breakers	392°F Water Still & Chamber / 482°F Steam Generator
	Insulation Class	Class A

AIR, WATER & STEAM		
	Bacteriological air filter	0.027 micron porosity / 1/8" male NPT connector
	Particulate water pre-filter	10 microns Sediment Filter
	Municipal feed water	≤500 ppm TDS (780 µS/cm conductivity at 68°F)
	Manual feed water	≤9 ppm TDS (15 µS/cm conductivity at 68°F)
	Feeding water tanks	3 L
	Recirculating water tanks	2 L
	Water distilling rate	760 mL/h (peak)
	Water drain and overflow	1000 mL/min @ 140°F ~ 200°F

DIMENSIONS & WEIGHTS		
	Device dimensions	24" width x 20" height x 25" depth
	Device weight	198 lb / 226 lb (with full tanks and trayed chamber)
	Chamber dimensions	10.8" dia x 15.8" depth
	Chamber volume	about 25 L
	Maximum chamber load	24 lb
	Chamber loading	15"x6" (2 trays-3 lb per), 15"x8.5" (2 trays-4 lb per), 15"x9.5" (2 trays-5 lb per), 15"x 9"x1.6" (3 cassettes / 6 lb per)

ENVIRONMENT		
	Installation category	Cat. II (EN 61010-1 : 2010 + A1 : 2019)
	Operating conditions	60°F ~ 95°F / 20% ~ 80% non-condensing RH 10 ACPH
	System max temperature	282°F
	System max gauge pressure	250 kPa(g)
	System min gauge pressure	- 80 kPa(g)
	Noise emission	≤67 db (A)
	Operating mode	Indoor / Stationary / Tabletop
	Counter proportions	30" width x 23" height x 26" depth (minimum)
	Installation height	30" ~ 36"

According to the Code of Federal Regulations in title 21 (Food and Drug Administration - FDA), volume 8 (Medical Devices), part 880 (General Hospital and Personal Use Devices), and section 6880 (Infection Control Devices - Steam Sterilizers); namely 21CFR 880.6880, LifeUltra™ is classified as a Class II device.