LOW TEMPERATURE VAPORIZED H_2O_2 STERILIZERS

Overview

These hydrogen peroxide sterilizers are designed for medical instruments and equipment that are susceptible to heat and moisture. The system vaporizes H_2O_2 under deep vacuum and generates RF-excited plasma inside the chamber. During sterilization, hydrogen peroxide transforms into free radicals and UV photons; after the cycle it decomposes into harmless water vapor and oxygen.



Representative product visual



Representative product visual

Operating temperature **40-55 °C**	**Program duration** **55 / 70 / 85 min**	**Nominal chamber volume** **110 L / 160 L**
Power requirement **380 V, 50/60 Hz, 3 phase**	**H■O■ concentrator** **>82 wt%**	**Reservoir concentration** **>=58%**

Applications and sterilization scope

Suitable for high-value devices such as lumen instruments, endoscopes, optical equipment, rigid optics, laser probes, micro-surgical kits and ophthalmology instruments.

Door options: Single-door and double-door pass-through configurations

Loading system: Two racks; minimum 2 baskets and maximum 4 baskets; total rack load 10-12 kg

Material compatibility

Compatible: Stainless steel, Aluminum, PMMA, Polycarbonate (PC), PVC, Polypropylene (PP), Silicone, Nylon, Latex, EVA

Not recommended: Cotton materials, Fabric / textile, Cellulose products, Wood, Foam, Sponge, Linen, Liquids

Packaging basis in source files: Tyvek roll bags

Model Selection and Dimensional Matrix

Parameter	PS110 Single	PS110 Double	PS160 Single	PS160 Double
Nominal volume (L)	110	110	160	160
Chamber W (mm)	430	430	492	492
Chamber D (mm)	739	745	739	745
Chamber H (mm)	440	440	532	532
Internal W (mm)	400	400	460	460
Internal H (mm)	405	405	500	500
Internal D (mm)	710	710	710	710
External W (mm)	680	680	680	680
External D (mm)	864	864	864	864
External H (mm)	1910	1910	1910	1910
Weight (kg)	385	415	395	430
Geometric volume (L)	115.0	115.0	163.3	163.3

Common technical specification	Value
Sterilization cell	Rectangular AISI 316L stainless steel
Outer panel	AISI 304L stainless steel, mobile design with wheels and brake
Plasma type	Radio-frequency-excited plasma
Air intake	Medical-grade HEPA filter
Catalytic converter	Yes
Alarms	Excess load, excess humidity, excess cellulose content
Control unit	7" and 10" LCD touchscreen, thermal printer, USB, Ethernet
Bottle data	Max. 30 cycles per bottle; 30-day installed shelf life; 12-month unopened shelf life

Programs	Duration	Primary scope	Examples
Short Program	55 min	Lumen-free instruments and reusable medical devices	Endoscopes, rigid optics, laser probes, micro-surgical kits, ophthalmology kits
Standard Program	70 min	Lumen-free instruments plus flexible Teflon® lumen and stainless steel lumen	Reusable devices, optics, probes, kits
Intensive Program	85 min	Narrow channels and long lumens	Reusable devices, flexible Teflon® lumen, stainless steel lumen

Standards and documentation

EN ISO 13485, EN ISO 9001, ISO 14937 validated sterilization cycles, and CE-related statements shown in the source files (EMC EN 60601-1-2, LVD IEC 61010-2-040, LVD IEC 61010-1).

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Source basis: 'Hidrojen Peroksit KM PS SUNUM - ENGLISH.pptx' and 'PS datasheet.pptx'.