Steam Sterilizer
Goldberg 1000S/1000D

eryiğit MEDICAL DEVICES

Technical Datasheet

ERYIGIT's steam sterilizer is offered in a prevacuum configuration and is designed and manufactured for fast and efficient sterilization of textile material, surgical instruments, dressing tools, rubber materials and liquids in a glass container in healthcare facilities.

Size of Chamber	
Chamber Volume	1000 Lt.
Chamber Depth	2250 mm
Chamber Width	670 mm
Chamber Height	700 mm
STU Capacity **	15 pcs

*** Basket/container size (STU): 600x300x300 mm (LxWxH).*

Dimensions	Single Door	Double Door
Door Type	***Fully Automatic Vertical Sliding Door***	
Depth	2750 mm	2550 mm
Width	1080 mm	1080 mm
Height	1975 mm	1975 mm
Empty Weight	~1720 Kg	~1760 Kg
Packaged Weight	~1920 Kg	~1960 Kg

Goldberg 1000S/1000D steam sterilizer is designed and manufactured in compliance with the following requirements and standards:

Medical Device Directive	: 93/42/EEC as amended by directive 2007/47/EC
Device Classification	: Class IIb, acc. To EC MDD 93/42/EEC 2007/47/EC (Annex IX)
Low Voltage Directive	: EN 60601-1; EN 61010-1; EN 61010-2-040
EMC Directive	: EN 60601-1-2; EN 61326-1
Pressure Equipment Directive	: PED 2014/68 EU
Sterilization – Steam sterilizers – Large sterilizers	: EN 285
Quality Management System Requirements	: EN - ISO 9001:2015
Medical Devices – Quality management systems – Requirements for regulatory purposes	: ISO 13485:2016
Environmental Management Systems – Requirements with guidance for use	: ISO 14001:2015

Device	
Control System	PLC (Programmable Logic Controller)
Operation Mode	Fully Automatic / Button Command and touch screen
Display Type	Color TFT, LCD Touch Screen
Display Sizes Available	7,0"(standard) / 10,0" (optional)
Key Pad	Touchscreen
Printer	40 Character/line, integrated thermal printer
Communication	RS232 Port/USB Port
Warning System	Visual & Audio & Printed
Data Storage	1000 cycles
Monitoring	Addition to Touchscreen, analogue gauges for chamber, jacket, generator and air pressure
Mobility	Easy positioning on 4 castors (2 x swivel) and firm fixing on suspension legs
Steam Control	Through pneumatic and electric valves

Standard Programs	
Medical & Surgical Instruments (134°C	~ 60 min
Textile Materials (134°C)	~ 60 min
Rubber Articles (121°C)	~ 80 min
Liquids in Glass Container (121°C)	~ 60 min
Silicone Implants (134°C)	~ 80 min
Flash (134°C)	~ 20 min
Prion (134°C)	~ 90 min
Bowie & Dick Test (134°C)	~ 45 min
Vacuum Leak Test	~ 25 min
Customized Program Capacity	20

Process times are load-dependent and approximate. They refer to full process including drying with an average load.

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Safety & Quality Features

- √ Protects operator from electrical current leaks.
- √ Short circuit protection.
- √ Safety valve.
- √ Hepa filter for air filtration.
- √ Water level control with electrodes in generator.
- √ Water level buoy (at water tank).
- √ Steam traps for sensitive steam drainage.
- √ Leak test.
- √ Password protection.
- √ Sensors against obstructions on the doors way.
- √ Pressured door locks.
- √ Unable to open both doors at once in Septic-Aseptic models.
- √ Emergency stop button.

Temperature	
Range	110°C - 141°C (chamber)
Measurement	PT 100 (DIN Class A) Sensors
Location	Chamber, Generator

Pressure	
Measurement	Pressure Transducer
Location	Chamber, Jacket , Generator

Vacuum	
Source	Pump, liquid ring (2.2KW)
Capacity	60 mbar
Pre-Vacuum	Yes

Construction	
Frame/Carcase	Electrostatic powdered profile stee
	AISI 304 stainless steel is optional
Outer Panel	AISI 304 stainless steel
Chamber	6.0 mm, AISI 316 L/Ti stainless steel
Jacket	3 mm, AISI 304 L stainless steel, partial cover
	AISI 316 L stainless steel is optional
	Full cover jacket is optional
Door	6 mm, AISI 304 stainless steel
Panels Surrounding	AISI 304 stainless steel
Piping	brass
	AISI 304 stainless steel is optional
Chamber Polishing	Electro polishing is optional

Installation Requirement	
Power	80 kW, 3 Phase / 400 VAC ±10
Water	RO treated deionized water for high performance

Chamber	
Test Pressure	5 Bar

Steam Generator	
Capacity	90 Lt
Water Level Protection	CRES* / AISI 304 stainless steel
Power (3 Phase, 400 ±10 VAC)	70 KW
Test Pressure	7 Bar

** CRES : Corrosion Resistant Stainless Steel*

Consumption	
Electricity	20 kW/cycle
Water (Approximate)	~150 Lt/cycle

Steam	
Type	97% Saturated Steam at Abs. Pressure
Source	Built in Steam Generator
	Central Steam System is optional
Side of Applied Steam	Lateral

Optional Accessories

- 2 Shelves including chamber rails
- Cart Set (Transport + Loading) with adjustable height option
- Single Transport Trolley (Optional Height Adjusting)
- Single Loading Cart (AISI 304 Stainless Steel)
- STU Basket (AISI 304 Stainless Steel)

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Feeding Water Requirements *	
Residue on evaporation	≤ 10 mg/L
Silicate (SiO2)	≤ 1 mg/L
Iron	≤ 0,2 mg/L
Cadmium	≤ 0,005 mg/L
Lead	≤ 0,05 mg/L
Heavy metals other than iron, cadmium, lead	≤ 0,1mg/L
Chloride (Cl)	≤ 2 mg/L
Phosphate (P2O5)	≤ 0,5 mg/L
Conductivity (at 25°C)	≤ 5 µS/cm
pH Value (degree of acidity)	5 to 7,5
Appearance	Free of sediment, clear, colorless
Hardness (Σ Earth Alkali Ions)	≤ 0,02 mMol/L

** Water quality should be checked by standard analitical test methods by the institution which utilizes the sterilizer.*

Drainage	
Water	Inclined metal pipe to be installed onsite with at least 2 meters of length (diameter: 2" - 3")
Steam (Condensed)	Steam Trap (built in)
Air	Central Air System of Hospital 6 bar pressure Built in air compressor is optional

Installation Conditions

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.

For more information, please contact:

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