






GOLDBERG 100/100V

ERYIGIT's GOLDBERG steam sterilizer is offered in a pre-vacuum 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		Size of Device		100	100V
Chamber Volume	100 Lt	Device Width	1050 mm	1050 mm	1050 mm
Chamber Depth	780 mm	Device Depth	620 mm	620 mm	620 mm
Chamber Diameter	405 mm	Device Height	1260 mm	1260 mm	1260 mm
		Empty Weight	240 kg	275 kg	275 kg
		Packaged Weight	350 kg	385 kg	385 kg

GOLDBERG 100/100V steam sterilizer is designed and manufactured in compliance with the following requirements and standards

Medical Device Regulation	: EU 2017/745 MDR Annex VIII Rule 16	
Device Classification	: Class IIa, acc. to EU 2017/745 MDR (Annex VIII, Rule 16)	
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 285:2016	
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	
“Type” tests of ERS/STR/GOLDBERG series steam sterilizers are performed and certified according to the directives of EN 285 and TS EN 17665-1-2 by The German accreditation company HYGCEN GmbH.		

Device

Control System	PLC (Programmable Logic Controller)
Operation Mode	Fully Automatic / Button Command
Display Type	Color TFT, LCD Touch Screen
Display Sizes Available	4,3"
Key Pad	Touchscreen
Printer	40 Character/line, integrated thermal printer
Communication	RS232 Port
Warning System	Visual & Audio & Printed
Data Storage	400 cycles
Monitoring	Addition to Touchscreen, analogue gauges for chamber and jacket pressure
Mobility	Easy positioning on 4 castors (2 x swivel) and firm fixing on suspension legs
Steam Control	Electric valves

Standard Programs*

Medical & Surgical Instruments (134°C)	~ 60 min	Bowie & Dick Test (134°C)	~ 45 min
Textile Materials (134°C)	~ 70 min	Vacuum Leak Test	~ 25 min
Rubber Articles (121°C)	~ 80 min	Customized Program Capacity	10
Liquids in Glass Container (121°C)	~ 60 min		
Silicone Implants (121°C)	~ 80 min		
Flash (134°C)	~ 45 min		
Prion (134°C)	~ 90 min		

*Program duration may vary depending on the amount of load and the program. They refer to full process including drying with an average load.

Safety & Quality Features

√ Protects operator from electrical current leaks	√ Password protection
√ Short circuit protection	√ Water level buoy (at water tank)
√ Safety valve	√ Pressured door locks
√ Hepa filter for air filtration	√ Leak test
√ Water level control with electrodes in jacket	

TECHNICAL DATA SHEET | STEAM STERILIZER GOLDBERG 100/100V

Temperature	
Range	110°C - 141°C (chamber)
Measurement	1x PT 100 (DIN Class A) Sensor
Location	Chamber (1)

Pressure	
Measurement	Pressure Transducer (2)
Location	Chamber (1), Jacket (1)

Vacuum	
Source	Pump, liquid ring (1.5 kW for 100V model)
Capacity	60 mbar
Pre-Vacuum	Yes

Construction	
Frame/Carcase	Electrostatic powder paint on carbon steel AISI 304 stainless steel is optional
Chamber	3.0 mm, AISI 304L stainless steel AISI 316 L/Ti stainless steel is optional

Jacket	3 mm, AISI 304L stainless steel, partial cover AISI 316L/Ti stainless steel is optional
Door	10 mm, AISI 304L stainless steel
Panels Surrounding	AISI 304L stainless steel
Piping	Brass AISI 304L stainless steel
Chamber Polishing	Electro polishing is optional

Installation Requirement	
Power	9 kW (without vacuum), 10,5 kW (with vacuum) 3 Phase / 380±%10 VAC, 50 Hz
Water	RO treated deionized water for high performance

Feeding Water Requirements *	
Residue on evaporation	≤ 10 mg/L
Silicate (SiO ₂)	≤ 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 (P ₂ O ₅)	≤ 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
Asperity (Σ Earth Alkali Ions)	≤ 0,02 mMol/L

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

Chamber	
Test Pressure	5 Bar
Test Temperature	150°C
Working Pressure	2,8 Bar
Working Temperature	140°C

Steam Generator**	
Capacity	10 Lt
Water Level Protection	CRES* / AISI 304L steel box
Power (3 Phase, 380 ±%10 VAC)	7,5 kW
Test Pressure	7 Bar
Test Temperature	160°C
Working Pressure	3 Bar
Working Temperature	150°C

* CRES : Corrosion Resistant Stainless Steel

**The jacket serves as steam generator

Consumption	
Electricity	2-2,5 kW/cycle*
Water	7-201 Lt*

*Electric and water consumption may increase depending on the selected program and load amount

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

Optional Accessories	
	1 or 2 basket

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	(only for 100V model) Vacuum Motor (built in)

TECHNICAL DATA SHEET | STEAM STERILIZER GOLDBERG 100/100V

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.



For more information, please contact



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EN 285:2016
EN 17665
EU 2017/ 745
MDR
PED 2014/68/EU
ISO 9001:2015
ISO 13485:2016
ISO 14001:2015



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