

# Steam Sterilizer

## STR 75 - 75V

**ERYİĞİT**

MEDICAL DEVICES

Technical Datasheet

ERYİĞİT'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	75 Lt.
Chamber Depth	600 mm
Chamber Diameter	400 mm
Basket Capacity	1 pcs

Size of Device	75	75V
Device Width	890	1055 mm
Device Depth	630	650 mm
Device Height	1280	1310 mm
Empty Weight	175 Kg	185 Kg
Packaged Weight	225 Kg	240 Kg

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	: 2006/95/EC - EN 60601-2-040
EMC Directive	: 2004/108/EC EN 60601-1-2
Pressure Equipment Directive	: 97/23/EC : EN 13445-1, -2, -3, -4, -5 (Pressure Vessels)
Sterilization – Steam sterilizers – Large sterilizers	: EN285
Quality Management System Requirements	: ISO 9001
Medical Devices – Quality management systems – Requirements for regulatory purposes	: ISO 13485
Environmental Management Systems – Requirements with guidance for use	: ISO 14001

“Type” tests of ERYİĞİT 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	Addition to Touchscreen, analogue gauges for chamber, jacket.
Monitoring	Easy positioning on 4 castors (2 x swivel) and firm fixing on suspension legs
Mobility	Electric valves
Steam Control	

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.

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 precise exhausting.
√ Leak test.
√ Password protection.
√ Sensors against obstructions on the doors pathway.
√ Doors locks under pressure.

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

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

Vacuum(only 75V model)	
Source	Pump, liquid ring (1.2KW)
Capacity	60 mbar
Pre-Vacuum	Yes

Construction	
Body	Electrostatic powdered profile steel/AISI 304 stainless
Chamber	3.0 mm, AISI 316 L/Ti stainless steel
Jacket	3 mm, AISI 316 L stainless steel, full cover
Door	10 mm, AISI 304 stainless steel
Panels Surrounding	AISI 304 stainless steel
Piping	brass, AISI 304 stainless steel
Chamber Polishing	Electro polishing, Optional

Installation Requirement	
Power	3 Phase / 400 VAC ± 10, 50 Hz 7,5-8 kW (without vacuum), 10 kW (with vacuum)

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
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.

Drainage	
Water	Inclined metal pipe to be installed onsite with at least 2 meters of length (diameter: 3/4")
Steam (Condensed)	Steam Trap (built in)
Air	(only 75V model)Vacuum Motor (built in)

### 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:



**ERYİĞİT Medical Devices Inc.**  
 IVOGSAN, 1453 Sok. No:3/1 Ostim  
 06370 Yenimahalle, ANKARA, TURKEY  
 Tel: +90 312 395 5795 (pbx); Fax: +90 312 395 57 96  
[www.eryigit.com.tr](http://www.eryigit.com.tr) ; [sales@eryigit.com.tr](mailto:sales@eryigit.com.tr)

Chamber	
Test Pressure	7 Bar/Abs
Test Temperature	148 °C
Working Temperature	134 °C
Working Pressure	3,2 Bar/Abs

Steam Generator	
Capacity	16 Lt
Water Level Protection	CRES* / AISI 304 steel box
Power (3 Phase, 400 ± 10 VAC)	7.5 KW
Test Pressure	7 Bar/Abs
Test Temperature	159 °C
Working Temperature	145 °C
Working Pressure	4,2 Bar/Abs

\* CRES : Corrosion Resistant Stainless Steel

Consumption	
Electricity	5 kW/cycle
Water (Approximate)	~ 80 Lt/cycle

Steam	
Type	97% Saturated Steam at 4.2 Bar Abs. Pressure
Source	Built in Steam Generator or Central Steam System
Side of Applied Steam	<b>Portrait</b>

Optional Accessories	
1 or 2 basket	

