



HRF3000 HYDROGEN PEROXIDE (H₂O₂)

Low-Temp Gas Plasma Sterilization Device

Technical Specifications / Datasheet

MODEL	S75	S125
TYPE	HRF 3000	HRF 3000
SCREEN	Touch Screen 7"	Touch Screen 7"
EXTERNAL DIMENSIONS (mm) (W/D/H)	730x955x1860	730x955x1860
CHAMBER INTERIOR DIMENSIONS (mm) (W/H/D)	440x370x700	440x500x700
CHAMBER VOLUME (lt)	113	154
CHAMBER VOLUME (Effective Field lt)	92	131
POWER (WATT)(MAX.)	3200	3200
OPERATING VOLTAGE	220/230 VAC,	220/230 VAC,
	50/60 Hz	50/60 Hz
PROTECTION CLASS	IP20	IP20
EXTERNAL CHASSIS	STAINLESS STEEL / ESC Powder	STAINLESS STEEL / ESC Powder
CHAMBER MATERIAL	STAINLESS STEEL 316	STAINLESS STEEL 316

CLASS - TYPE	
TYPE (BLOKE)	Bloke Type Hydrogen Peroxide Low Temperature Sterilizer
CLASS	CLASS IIb
STERILIZATION SPECIFICATION	All Microorganisms (All Bacteria Forms, All Viruses, All Fungi Forms) And All Prions
MODELS	S75– S125
PHYSICAL and TECHNICAL SPECIFICATIONS	
DEVICE EXTERNAL DIMENSIONS (CASTER NOT INCLUDED)	S75 - 730x955x1860 S125- 730x955x1860
QUALITY OF STAINLESS STEEL (CHAMBER, DOOR, EXTERNAL CHASSIS ETC.)	316 Stainless Steel / Door: Aluminum / Outer Casing: Stainless Steel / ESC Powder
WEIGHT (KG)	390-450 Kg (S75 – S125)
CHAMBER INTERIOR DIMENSIONS	S75 - 440x370x700 mm S125 - 440x500x700 mm
NUMBER OF TRAYS	S75 - 2 Units S125 - 3 Units
TRAY SPECIFICATIONS	Electropolished Stainless Steel Tray 600 × 390 × 80 mm
CHAMBER VOLUME (LITER)	S75-113 lt / Effective Use Field 92 lt S125-154 lt / Effective Use Field 131lt
DOOR SPECIFICATION	Vertical Sliding Automatic Door
DOOR OPEN / CLOSE METHOD	Automatic and Optional Foot Pedal
DOOR GASKET SYSTEM	Silicone Gasket
DOOR SAFETY	Sensor Secured
EXHAUST FILTER	Oil Mist Traps
FRESH AIR FILTER	HEPA
CONDITIONER AND AERATION	Included
DEHUMIDIFICATION FEATURE	Included
H ₂ O ₂ SEPARATOR	TEKNO MAR 0,8 kW H ₂ O ₂ Vaporizer
PLASMA ELECTRODE	Included / Condensative Featured Prism
PLASMA FEATURE	Included / Chamber Interior HRF Cold Plasma Technology
PLASMA POWER	HRF / Plasma Power 750W
PRE-PLASMA FEATURE	Included
OPERATING TEMPERATURE	37-55°C between adjustable/ Fixed program 37°C and 55°C
TEMPERATURE SENSOR	PT100
HEATING TYPE	Homogeneous Plate Heaters
VACUUM PUMP SUCTION LEVEL	10 ⁻³ Torr
NUMBER OF VACUUM AND FEATURE	Depending on the application method used, 5–8 programs can be additionally adjusted. In Case Of Humidification Detected, Alarm Is Given for Pre-Plasma.
CONNECTION / PIPE LINE FEATURES	QF Stainless Steel /PVC Connectors
ELECTRICAL SPECIFICATIONS	
ELECTRIC INFORMATION	220-230V AC 50-60 Hz
PROTECTION CLASS	IP20 / EN 60601-1-2:2015
CONSUMPTION	Rated Burden 6,7 kW / Per Cycle 2,7 kW – 3,2 kW

PROGRAM SPECIFICATIONS	
SOFTWARE	PLC / HMI
CONTROL PANEL SPECIFICATIONS	7" LCD / Touch Screen
LANGUAGE	Turkish-English- Romanian
MENU	Date, Time, Temperature, Pressure, Steps of Program, Alarm, Service and more.
VALIDATION AND CALIBRATION PROGRAM	Included. Each of the Devices Certified for Validation and Calibrations.
PRINTER FEATURE	Thermal Printer, 56x16 mm 15 mt Thermal Printer Paper.
PASSWORD PROTECTION	Included for User and Maintenance Separately.
BARCODE READER	Included
RFID CARTRIDGE IDENTIFICATION (OPTIONAL)	Each of the Cartridge Has RFID Code to Detect Efficiency of Hydrogen Peroxide Solution and Expire Date.13.56 MHz
USB PORT / DATA TRANSFER	Included
RS232 CONNECTION	Included
CONNECTION TO NETWORK SYSTEM	Included (Optional)
REMOTE ACCESS	Included (Optional)
NUMBER OF PROGRAM	3 as; Short, Long and Lumen
STERILIZATION DURATION	Lumen Program 60 Min / Short Program 27 Min / Long Program 45 Min (After System is Ready)
SPECIAL LUMEN PROGRAM	2 mm Inner Diameter, 1200 mm Length, 1 mm Inner Diameter 850 mm Length Teflon Flexible Lumens and 1 mm Inner Diameter 500 mm Length Rigid Stainless-Steel Lumens.
LUMEN INNER DIAMETER	Between Ø1 mm – Ø100 mm
ABILITY OF STERILIZING ENDOSCOPES	Included
ABILITY OF STERILIZING CATHETER	Included (Ø1 mm x L1350 mm (Dual End Open)
PRION FEATURE	Effective for Prions
H ₂ O ₂ STERILANT SPECIFICATIONS (HYDROGEN PEROXIDE SOLUTION CARTRIDGE)	
H ₂ O ₂ CONSUMPTION	Short Cycle 7+7 cc / Long Cycle and Lumen Program 10+10 cc
H ₂ O ₂ CONCENTRATION	Min %35 H ₂ O ₂ Concentration and Above
H ₂ O ₂ CARTRIDGE SPECIFICATION	58% or %40-60 H ₂ O ₂ / 100 cc – 150 cc
SHELF LIFE OF CARTRIDGE	6 Months Under Storage of 15-25 ^o C Temperature
H ₂ O ₂ WASTE DRAINAGE FEATURE	Included (1 Lt Disposable)
DOCUMENTS	
CE CERTIFICATE - 93/42/EEC	Included
ISO 13485	Included
LVD / EMC TEST AND DOCUMENTS	Included / EN 60601-1:2006, EN 60601-1-2:2015
EN ISO 14937 DOCUMENTS	Included
MAINTENANCE	
VACUUM PUMP AND MAINTENANCE PERIODS	(300 Cycles) Vacuum pump oil change 6-month and 1-year / (300–600 Cycles) device maintenance
OTHER TECHNICAL SPECIFICATIONS	4 Caster Built in to Ease of Placement and Installation. Only an Electric Connection is Required.