



hdrOzone®

Hydronium Heavy Molecule Sterilization Device

Technical Specifications / Datasheet

MODEL	B3S125
TYPE	BSCIENCE
SCREEN	Touch Screen 7" / 10"
EXTERNAL DIMENSIONS (mm) (W/D/H)	730x955x1980
CHAMBER INTERIOR DIMENSIONS (mm) (W/H/D)	440x500x700
CHAMBER VOLUME (lt)	154
CHAMBER VOLUME (Effective Field lt)	134
POWER (WATT)(MAX.)	3200 W
OPERATING VOLTAGE	220/230 VAC
	50/60 Hz
PROTECTION CLASS	IP20
EXTERNAL CHASSIS	Stainless Steel 304 / ESC Powder
CHAMBER MATERIAL	Stainless Steel 304 / 316

PRODUCT	BRAND/MODEL	DESCRIPTION	SIZE (cm / kg)	PACKAGING SIZE (cm / kg)	ORDER NO
	BSCIENCE HDROZONE PLASMA STERILIZATION DEVICE B3S125 Sterilization lumen length capacity : Ø 2 mm x 7,5 m	HDROZONE Hydronium Heavy Molecule & H ₂ O ₂ Plasma Sterilization Device Chamber: 154 LT	73 x 95,5 x 198 cm 450 kg	86 x 101 x 208 cm 520 kg Pallet: 90 x 115 cm	63165 8683813863165
	BSCIENCE HDROZONE PLASMA STERILIZATION DEVICE B3S125 Sterilization lumen length capacity: Ø 2 mm x 10 m	HDROZONE Hydronium Heavy Molecule & H ₂ O ₂ Plasma Sterilization Device Chamber: 154 LT	73 x 95,5 x 198 cm 450 kg	86 x 101 x 208 cm 520 kg Pallet: 90 x 115 cm	63172 8683813863172
	BSCIENCE HDROZONE PLASMA STERILIZATION DEVICE B3S125 Sterilization lumen length capacity: Ø 2 mm x 15 m	HDROZONE Hydronium Heavy Molecule & H ₂ O ₂ Plasma Sterilization Device Chamber: 154 LT	73 x 95,5 x 198 cm 450 kg	86 x 101 x 208 cm 520 kg Pallet: 90 x 115 cm	63189 8683813863189
	BSCIENCE HDROZONE PLASMA STERILIZATION DEVICE B3S125 Sterilization lumen length capacity : Ø 2 mm x 50 m	HDROZONE 50L Hydronium Heavy Molecule & H ₂ O ₂ Plasma Sterilization Device Chamber: 154 LT	73 x 95,5 x 198 cm 450 kg	86 x 101 x 208 cm 520 kg Pallet: 90 x 115 cm	63196 8683813863196
	BSCIENCE HDROZONE GI HRF3000 PLASMA STERILIZATION DEVICE B3S125 Sterilization lumen length capacity : Ø 2 mm x 7,5 m	HDROZONE Hydronium Heavy Molecule & H ₂ O ₂ Plasma GI Sterilization Device Chamber: 154 LT	73 x 95,5 x 198 cm 450 kg	86 x 101 x 208 cm 520 kg Pallet: 90 x 115 cm	62168 8683813862168
	BSCIENCE HDROZONE GI HRF3000 PLASMA STERILIZATION DEVICE B3S125 Sterilization lumen length capacity: Ø 2 mm x 15 m	HDROZONE Hydronium Heavy Molecule & H ₂ O ₂ Plasma GI Sterilization Device Chamber: 154 LT	73 x 95,5 x 198 cm 450 kg	86 x 101 x 208 cm 520 kg Pallet: 90 x 115 cm	62182 8683813862182

CLASS - TYPE	
Type (Block)	Block Type Ozone & Hydrogen Peroxide Low Temperature Sterilizer (Hydronium)
Class	Ozone & Hydrogen Peroxide Low Temp. Sterilization
Sterilization Specification	Effective on Whole Microorganisms (All Bacteria Forms, Viruses, Fungi Forms) and All Prions
Models	B3S125
PHYSICAL AND TECHNICAL SPECIFICATIONS	
Device External Dimensions	730x955x1980 mm
Stainless Steel Grade (Chamber, Door, Outer Panels)	Chamber 316 Stainless Steel / Door 5083 Al / Outer Panels 304 / ESC Powder
Sterilization Chamber Inner Dimensions	440 x 500 x 700 mm
Weight (kg)	450/ With Package 520
Number of Trays	3 Units
Tray Specifications	Electro Polishing Stainless Steel 600 x 390 x 80 mm
Chamber Volume (Liter)	154 Lt / Available 134 Lt
Door Specification	Horizontally Opening Door or Vertical Sliding Door.
Door Opening and Operating	Horizontal, Automatic and Optional Foot Penal
Door Seal System	Silicone Gasket
Door Safety	Sensor Protection
Exhaust Filter	Oil Mist Traps
Fresh Air Filter	HEPA
Conditioner and Aeration Features	Included
Dehumidification Feature	Included
Ozone Generator	B SCIENCE 0,6 kW Ozone Gas Generator
H ₂ O ₂ Separator	B SCIENCE 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	Plasma Power 750W
Pre-Plasma Feature	Included
Operating Temperature	37-45°C (fixed program 41°C)
Temperature Sensor	PT100
Heating Type	Homogeneous Plate Heaters
Vacuum Pump Suction Level	10 ⁻³ Torr
Vacuum Feature & Dehumidification Function	The Device Also Has a High-Tech Moisture Drying System and Mode. Moist Materials are Sterilized by Drying in the Device Without Wasting Time.
Connection / Pipe Line Features	QF Stainless Steel /PVC Connectors
ELECTRICAL SPECIFICATIONS	
Electric Information	Standard 220-230 VAC 50-60 Hz / or 400 VAC
Protection Class	IP20
Consumption	Rated Burden 6,7kW/ Per Cycle 2,7kW - 3,2 kW

PROGRAM SPECIFICATIONS	
Software	PLC / IoT / HMI
Control Panel Specifications	7" / 10" LCD / Touch Screen (Varies by Model)
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. There is a special Validation programme on half cycle!
Printer Feature	Thermal Printer, 56x16 mm 15 mt thermal printer paper.
Password Protection	Included for User and Maintenance Separately.
Barcode Reader	Included as Optional
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
Connection to Network System	Included (Optional)
Remote Access	Included (Optional)
Number of Program	2 With HdrOzone Sterilization Feature + 1 GI Program 3 With Hydrogen Peroxide Sterilization Feature
HdrOzone Sterilization Duration	HdrOzone Heavy Molecule Load Program 75 Min / Lumen and Full Capacity Load 95 Min (after system is ready) GI Endoscope Program: Approximately 43 Minutes (Inside the
H ₂ O ₂ Module Sterilization Duration	Hydrogen Peroxide Sterilization Feature: Short Program: 27 min / Long Program: 45 min / Lumen Program: 60 min (after the system is ready).
Lumen Specification	All Length and Inner Diameter Teflon Flexible, Lumen Rigid Stainless Steel Products
Load Program	Rigid Channel Instruments and Single / Dual Channel Endoscopes (Inner Diameter ≥ Ø 1 mm Length ≤ 2500 mm / Inner Diameter ≥ Ø 2 mm Length ≤ 4500 mm) ((Dual end open))
Special Lumen Program	Long Single / Multi Channel Flexible Endoscopes, Tubing Lumens (Inner Diameter ≥ Ø 0.1 mm Length ≤ 2500 mm / Inner Diameter ≥ Ø 2 mm Length ≤ 15000 mm)((Dual end open))
Ability of Sterilizing Endoscopes	Included
Ability of Sterilizing Catheter	Included (Ø 1 mm x L 1350 mm (Dual end open))
Prion Feature	Effective for Prions
OXYGEN SPECIFICATION	
External Oxygen Connection	Medical Oxygen ≤ 90%
H ₂ O ₂ STERILAN SPECIFICATION – DUAL STERILAN	
H ₂ O ₂ Concentration	Min %45 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
Shelve Life of Cartridge	6 Months Under Storage of 15-25 C° Temperature
H ₂ O ₂ Waste Drainage Feature	Included (1 Lt disposable)
O ₂ (OXYGEN)	Between %85- %99
CERTIFICATES	
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 Electric Connection and Medical Oxygen Connections are Required.

This datasheet is valid for all of the following product models.

Product: Hydrogen Peroxide Plasma Sterilization Device

Brand Name: HRF 3000

Model: S30, S75, D75, S125, D125, S175, D175, STEK, DTEK

Brand Name: BSCIENCE

Model: BS30, BS75, BD75, BS125, BD125, BS175, BD175, BSTEK, BDTEK

Product: Hydrogen Peroxide Ozone Plasma Sterilization Device (hdrOzone GI)

Brand Name: HRF 3000 OZONE (HdrOzone)

Model: 3S30, 3S75, 3D75, 3S125, 3D125, 3S175, 3D175, 3STEK, 3DTEK

Brand Name: BSCIENCE OZONE (HdrOzone)

Model: B3S30, B3S75, B3D75, B3S125, B3D125, B3S175, B3D175, B3STEK, B3DTEK

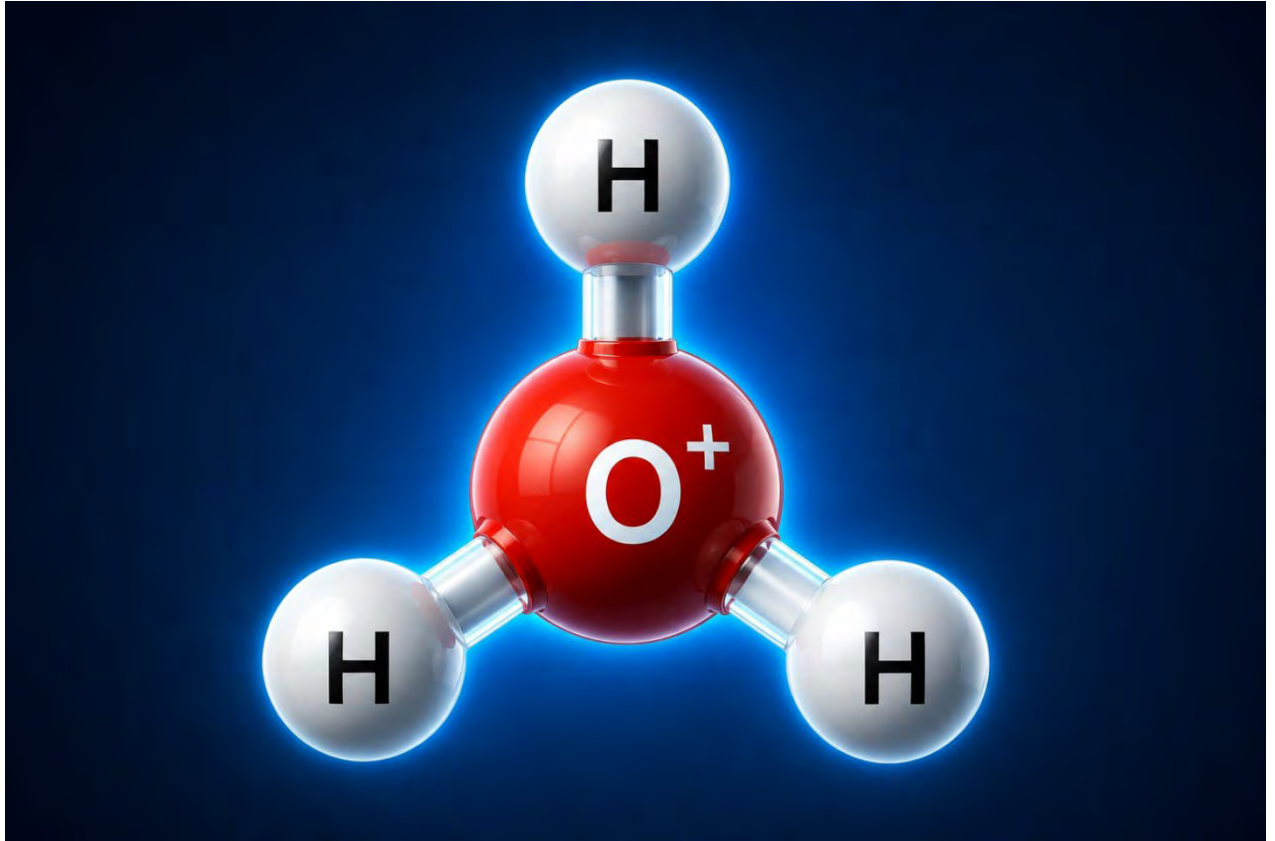
Product: Hydrogen Peroxide Solution Cartridge

Brand Name: HRF 3000

Model: HRF 3000 A150, HRF 3000 A250

Brand Name: BSCIENCE

Model: BSCIENCE B150, BSCIENCE B250



B SCIENCE BIOMEDICAL

Tel: +90 312 385 0040

Fax: +90 312 385 6784

info@bscience.com.tr

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