



## HYDROGEN PEROXIDE (H<sub>2</sub>O<sub>2</sub>)

### Low-Temp Gas Plasma Sterilization Device

#### Technical Specifications / Datasheet

| MODEL                                    | BS75                | BS125               |
|--|---------------------|---------------------|
| TYPE                                     | BSCIENCE            | BSCIENCE            |
| 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                  | 134                 |
| 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 304 | STAINLESS STEEL 304 |
| CHAMBER MATERIAL                         | STAINLESS STEEL 316 | STAINLESS STEEL 316 |

| <b>CLASS - TYPE</b>   |   |
|---|---|
| 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  | BS75– BS125   |
| <b>PHYSICAL and TECHNICAL SPECIFICATIONS</b>                      |   |
| Device External Dimensions (Caster Not Included)                  | BS75 - 730x955x1860<br>BS125- 730x955x1860  |
| Quality of Stainless Steel (Chamber, Door, External Chassis etc.) | Chamber 316L / Door 5083 Al / External Chassis 304 Stainless Steel  |
| Weight (kg)   | 390-450 Kg (BS75 – BS125)   |
| Chamber Interior Dimensions                                       | BS75 - 440x370x700 mm<br>BS125 - 440x500x700 mm   |
| Number of Trays   | BS75 - 2 Units<br>BS125 - 3 Units   |
| Tray Specifications   | Electro Polishing Stainless Steel 600x390x80mm Wire Tray  |
| Chamber Volume (Liter)  | BS75 113 lt / Effective Use Field 92 lt<br>BS125 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 Features                                 | Included  |
| Dehumidification Feature  | Included  |
| H <sub>2</sub> O <sub>2</sub> Separator                           | B SCIENCE 0,8 kW H <sub>2</sub> O <sub>2</sub> Vaporizer  |
| Plasma Electrode  | Included / Condensative Featured Prism  |
| Plasma Feature  | Included / Chamber Interior HRF Cold Plasma Technology  |
| Plasma Power  | HRF 12kV / Plasma Power 750W  |
| Pre-Plasma Feature  | Included  |
| Operating Temperature   | 37-55°C   |
| Temperature Sensor  | PT100   |
| Heating Type  | Homogeneous Plate Heaters   |
| Vacuum Pump Suction Level   | 10 <sup>-3</sup> Torr   |
| Number of Vacuum and Feature                                      | 5-8 Times Depending on The Selected Program. In Case Of Humidification Detected, Alarm Is Given for Pre-Plasma. |
| Connection / Pipe Line Features                                   | QF Stainless Steel /PVC Connectors  |
| <b>ELECTRICAL SPECIFICATIONS</b>                                  |   |
| 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  |

| <b>PROGRAM SPECIFICATIONS</b>  |  |
|--|--|
| 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 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   |
| 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 56 Min / Short Program 30 Min / Long Program 48 Min (After System is Ready)  |
| Special Lumen Program  | 2mm 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   |
| <b>H<sub>2</sub>O<sub>2</sub> STERILANT SPECIFICATIONS ( Hydrogen Peroxide Solution Cartridge)</b> |  |
| H <sub>2</sub> O <sub>2</sub> Consumption  | Short Cycle 7+7 cc / Long Cycle and Lumen Program 10+10 cc   |
| H <sub>2</sub> O <sub>2</sub> Concentration  | Min %35 H <sub>2</sub> O <sub>2</sub> Concentration and Above  |
| H <sub>2</sub> O <sub>2</sub> Cartridge Specification  | %40-60 H <sub>2</sub> O <sub>2</sub> / 100 cc – 150 cc   |
| Shelve Life of Cartridge   | 6 Months Under Storage of 15-25 <sup>o</sup> C Temperature   |
| H <sub>2</sub> O <sub>2</sub> Waste Drainage Feature   | Included (1 Lt Disposable)   |
| <b>DOCUMENTS</b>   |  |
| 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   |
| <b>MAINTENANCE</b>   |  |
| Vacuum Pump and Maintenance Periods  | 6 Months (300 Cycle) and 1 Year (600 Cycle) for Vacuum Pump Along With Periodical Maintenance.   |
| Other Technical Specifications   | 4 Caster Built in to Ease of Placement and Installation. Only an Electric Connection is Required.  |