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SHINVA 新华医疗 Plasma Sterilizer | PS-200X | Technical Specification

1	Technical Specification		
1.1	Chamber		
1.1.1	Total Volume	225 L	
1.1.2	★Structure & material	Structure: Rectangular Chamber, High Usable Volume. Material: High-quality Aviation Aluminum/Stainless steel 304 or 316 with thickness of 8mm, which has excellent thermal conductivity, ensuring that the hydrogen peroxide remains 100% gaseous.	
1.1.3	Electrode Mesh Material	Aluminum Allov Material. Sheet Metal Forming. Thickness : 2mm.	
1.1.4	★Chamber Temperature Sensor	1 Unit. High-precision Temperature Sensor, with a resolution of 0.1°C	
1.1.5	★Chamber Thermal Insulation	Thermal Insulation Cotton: Flame Retardant Fiber and Silicone Cloth, which has the characteristics of low thermal conductivity, good fire resistance, convenient maintenance and disassembly, strong anti-aging ability, non-toxic and environmentally friendly, and high-grade	
1.2	Door		
1.2.1	Door Quantity :	Single Door/Double Doors, Doors Interlock, realizing isolateion of sterile area and avoiding re- contamination	
1.2.2	Material :	High-quality Aluminum, Thickness: 20mm	
1.2.3	★Door Operation	Automatic Lift Door Driven by Electric Putter	
1.2.4	★Door Heat	Quantity of Heating Film: 2 Units, Door Temperaure Control Range: 50±2°C. Prevent the condensation of hydrogen peroxide gas and affect the sterilization effect.	
1.2.5	★Door Temperature Sensor	1 Unit. High-precision Temperature Sensor with resolution of 0.1°C, Controling Sterilization Temperature accurately.	
1.2.6	Door Protection Switch	When the barrier switch is touched, the door will automatically drop to prevent the operator from being trapped and items from being caught.	
1.2.7	Door Foot Switch	Door can be opened and closed by foot switch.	
1.3	Pipeline System		
1.3.1	Pump	Rotary Vane Vacuum Pump with Extremely High Vacuum Degree and Resistance to H2O2	
1.3.2	Pump Phase Protector	Vacuum Pump Phase Sequence Protector Prevent oil from turning back to the sterilization chamber due to the reverse rotation of the vacuum pump.	
1.3.3	Vcauum Valve	High vacuum baffle solenoid valve controls the vacuum pipe, Leakage Rate <1.3×10-7Pa*L*S-1	
1.3.4	Material	304 Stainles Steel Pipe and Clamps	
1.3.5	★Hydrogen Peroxide Filling	Cassette Filling	
1.3.6	★Hydrogen Peroxide Cassette	Hydrogen peroxide cassette includes 12 capsules. H2O2 Deviation $<1\%$, PH <2.6 , Content Reduction Rate $<3.04\%$ under the Condition of 54° C within 14 days.	
1.3.7	Capsule Counting Memory	Automatically calculate the number of capsules used, and remind the remaining number of capsules and the number of full cycles that can be run.	
1.3.8	Capsule Filling Volume	200X≤2.8ml, Deviation <1%;	
1.3.9	★Filling Control Valve	Japan SMC Solenoid Valve	
1.3.10	★Hydrogen Peroxide Purification	Purification fuction realize concentration of hydrogen peroxide after purification is greater than	



PS-200X

1.3.11	★Quantity of Pressure Sensor	Quantity of Pressure Sensor: 3 Units, Chamber Pressure Sensor: 2 Units, Purification System Pressure Sensor: 1 Unit.
1.3.12	★Chamber Pressure Sensor 1	Wika Pressure Sensor, Inspection Range: 0~2700Pa, Precision: 0.25%
1.3.13	★Chamber Pressure Sensor 2	Wika Pressure Sensor, Inspection Range: 0~101KPa _o
1.3.14	Purification Pressure Sensor	Wika Pressure Sensor, Inspection Range: 0~25000Pa, Prrecision: 0.25%,
1.3.15	Pump Filter	The product has an exhaust oil mist filtration system, which can recover the oil mist to prevent
		the oil mist from entering the air, and through the pump suction, the pump oil is returned to the
		pump for reuse to reduce fuel consumption.
1.3.16	★Hydrogen Peroxide Filter	Hydrogen Peroxide Filtration System, Concentration <0.6mg/m ³
1.3.17	Air Filter	Filtration Precision ≤0.22µm.
1.3.18	★Plasma Power	Transistor control power supply, power ≤500W, strong analytical ability, H2O2 residue in PTFE lumen after sterilization <0.003mg/cm2, residual in stainless steel <0.01mg/cm2. The system monitors the power and records in real time, and automatically judges and handles abnormal power failures.
1.3.19	Humidity detection function	It can automatically detect the humidity of the items. If the items are not completely dried, it will alarm if the humidity is too high.
1.4	Control System	
1.4.1	PLC :	Siemens S7-1200 PLC Control System
1.4.2	★Display	5.7 Inch Touch Screen, Resolution: 640*480. (7 Inch Touch Screen is optionally available)
1.4.3	Micro Printer	Micro Thermal Printer, Communication Rate≥19.2Kbps₀
1.4.4	★Display Content :	Temperature, Pressure, Time, Cycle, Stages, Number of Used Capsule and Alarm Information.
1.4.5	★Print Content :	Cycle Name, Sterilization Date, Sterilization Counting, Start Time and End Time. Pressure, Temperature, Stage, Time, Power and Status.
1.4.7	Computer Control System (Optional)	Optional computer monitoring system can realize real-time monitoring of sterilization data and permanent storage of historical operation records.
1.4.6	★Computer Control & Traceability System (Optional)	"With computer monitoring and scanning gun traceability system, scanning sterilization package and operator barcode information can be displayed on the touch screen. Computer monitoring comprehensively records sterilization data. "
1.5	Software	
1.5.1	★Cycle Quantity :	Standard Cycle: Stand, Lumen, Flex, Rapid, Leakage. Optional Cycle: Special , Vacuum Dry.
1.5.2	Flex Cycle	It has a special sterilization program for flexible endoscopes, which can sterilize flexible endoscopes with an inner diameter of 1mm and a lumen of 1000mm in length, and provides inspection reports issued by inspection agencies above the provincial level.
1.5.3	Cycle Time:	Lumen≤55min, Flex≤40min, Rapid≤26min.
1.5.4	Cassette Detection (Optional	Identification of Cassette Production Batch, Date, Type and Anti-counterfeiting Information.
1.5.5	Cycle Countdown	Cycle Running Countdown. The remaining time can be automatically adjusted according to the loading situation, which enables the operator to arrange the working time more reasonably
1.5.6	Vacuum Dry Function (Optional)	Vacuum Dry Cycle, It has a good dry function for long lumen and guarantee the effect of
1.6	Overall Size	
1.6.1	Loading :	Two Levels of Stainless Steel Loading Trays : 200X:1200x390x60 ;
1.6.2	Chamber Size:	200X:(125x45x40)cm, Rectangular Design
1.6.3	Overall Size:	200X:(147x66x160)cm High Passability, Easy to Install
1.6.4	Net Weight :	200X:500Kg
1.6.5	Power :	PS-100X:3.8kVA,PS-150X:4.5kVA,PS-200X:4.7kVA,PS-300X:5.4kVA,
1.6.6	Operation Height	≤900mm, Easy for Operation
1.7	Performance	

1.7.1	Sterilization Capacity	PTFE Lumen 200X Diameter is 1mm and Length is 1000mm Stainless Steel Lumen PS-200X:Diameter is 0.8mm and Length is 300mm
1.7.2	Electromagnetic Compatibility Test	Electromagnetic Compatibility Test Report
1.7.3	Toxicology Test	After sterilization, it is non-toxic to cells, ensuring no residual harm to patients and operators.
1.7.4	Physical and chemical detection	After sterilization, the corrosion rate of metal instruments R (mm / a) ≤ 0.0100 , basically no corrosion to metal instruments. Provide inspection reports issued by inspection agencies above the provincial level. (150 pots tested)
1.8	Certification	
1.8.1	CE	CE Certificate
1.8.2	Health and Safety Evaluation Report	Health and Safety Evaluation Report
2	Standard Configuration	
2.1	Host	1 Unit
2.2	Stainless Steel Loading Basket	2 Units
2.3	Hydrogen Peroxide Filter	1 Unit
2.4	Pump Oil	2L
2.5	Funnel	1 unit
2.6	Printer Paper	1 Roll
2.7	Hydrogen peroxide cassette	5 Units
3	Optional Configuration	
3.1	Integrated biological incubator	The electric heating constant temperature incubator is integrated with the equipment, has an independent control system, can run independently when the equipment is turned off, and the culture results can be printed through a printer.
3.2	Electrothermal incubator	Independent incubator.
3.3	Aluminum alloy basket	Multifunctional aluminum alloy basket with Pouch bag shelves.
3.4	Monitoring system	Monitoring of running data and permanent storage of the running records
3.5	Barcode Scanner	Scan and Record sterilization package information.
3.6	Double-door structure	Double Doors Interlock with Partition, realizing isolateion of sterile area and avoiding re- contamination
3.7	Traceability system	With computer monitoring and scanning gun traceability system, scanning sterilization package and operator barcode information can be displayed in the touch screen.
3.8	Chemical indication labels	VTS CD 40
3.9	Biological indicator	Strain : Bacillus stearothermophilus
3.10	Chemical instruction card	VTS
3.11	Nonwovens	Size: 500mm×500mm ; 800mm×800mm ; 1200mm×1200mm VITROSTERIL
3.12	Paper plastic packaging bags	Size (25m or 100m/ Roll) : Width 75mm, 100mm, 150mm, 250mm, 300mm VITROSTERIL
3.13	Hydrogen Peroxide Cassette	Concentration: 60%, PS-200X 12x2.8ml
3.14	Stainless Steel	
3.15	Vacuum drying	After cleaning, the instruments pre-blowed or pre-dried were put into the sterilization room. At the low temperature of 50 – 60 °C, the boiling point of water decreased with the decrease of air pressure. After vacuum drying for $10 – 60$ min, the water inside the tube cavity instruments was completely dried.

Manufacturer: Shinva Medical Instrument Co., Ltd Origin: China Exclusively made for VitroSteril.