



BENCHTOP AUTOCLAVE BKM-501

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PRE-VACUUM SMALL STEAM STERILIZER



This series of compact steam sterilizers (hereinafter referred to as sterilizers) are precision devices designed for physicians or their assistants to perform simple, rapid, and effective sterilization tasks under physician supervision. Featuring a microprocessor-based intelligent control system, the sterilizer offers user-friendly operation with real-time parameter and status display. It automatically diagnoses malfunctions and provides over-temperature / over-pressure protection to ensure reliable sterilization and disinfection. The sterilizer consists of a sterilization chamber, door assembly, heat insulation on layer, piping system, safety valve, control system, water storage tank, wastewater tank, and steam generator. The triple-pulse vacuum technology minimizes residual air in the chamber, enhancing sterilization efficacy. The high-definition LCD display clearly shows all

SPECIFICATIONS

Model	BKM-501
Capacity	23L
Sterilization Temperature	121°C / 20 minutes; 134°C / 5 minutes
Working Pressure	0.22 MPa
Features	
Heating method	Electrical heating
Vapour system	Built-in electric steam generator
Product form	Table model
Power	2.9 KVA
Source	AC220V, 50Hz
Outline dimension	700 x 530 x 425 mm
Inner liner size	Φ250 mm x 450 mm
Energy consumption	Approximately 1.5 kWh per batch
Tank capacity	1.5 L
Water supply method	It comes with a self-priming pump and can connect to a pipeline for automatic water supply.
Water consumption	0.6 L
Displacement	0.6 L (all except a small amount remaining on sterilized articles)
Materials used for the sterilization chamber	The sterilization chamber is made of 304 corrosion-resistant stainless steel.
Work environment	0°C-40°C
Working pressure	105 kPa / 121°C (at standard atmospheric pressure) and 210 kPa / 134°C (at standard atmospheric pressure)
Humidity during sterilization	≥80%
Display screen	4.3-inch LCD with resolution ≥480 x 272
USB interface	Supports USB export of sterilization records
Maximum working pressure	0.25 MPa
Applicable items	Surgical instruments, dental handpieces, dressings, glassware, cavity instruments, heat-resistant plastics and other items that can withstand 121°C or 134°C sterilization
Pulsating vacuum method	Perform pre-vacuum pulsation three or more times to efficiently expel cold air and ensure steam penetration
Drying function	Thermal vacuum drying or pulsating negative-pressure drying, with low residual moisture and drying time adjustable between 600 to 2000 seconds
Control method	PLC automatic control, LCD screen with touch buttons

Safety protection	Overheat protection, overpressure protection, low water level/anti-dry burn protection, safety door lock (door cannot be opened if pressure is not released), automatic pressure relief valve
Relief valve	When the pressure in the sterilization chamber exceeds 0.25 MPa, the safety valve automatically releases the excessive pressure, ensuring reliable performance
Printer	Using a micro printer, the data of each minute during the whole process of sterilization can be printed and permanently stored
Internal steam venting	Built-in condensate collector. Waste steam is condensed and discharged by the condenser.
Alarm system	The equipment is equipped with an automatic detection and alarm system.
Test function	Supports Bowie & Dick (BD) testing and vacuum leak testing.
Category	Class II medical devices.
Alt Name	Pre-vacuum Small Steam Sterilizer

FEATURES

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It automatically diagnoses malfunctions and provides over-temperature / over-pressure protection to ensure reliable sterilization and disinfection.

The sterilizer consists of a sterilization chamber, door assembly, heat insulation on layer, piping system, safety valve, control system, water storage tank, wastewater tank, and steam generator.

The triple-pulse vacuum technology minimizes residual air in the chamber, enhancing sterilization efficacy. The high-definition LCD display clearly shows all sterilization data, enabling better control of the sterilization process.



Biolab Scientific Ltd.

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: info@biolabscientific.com | Website: www.biolabscientific.com