Name: Autoclave, dental

Purpose

Effective sterilization of all dental tools: solid, hollow, porous, wrapped or unwrapped.

General Description/ System Components

Front-loading, microprocessor-controlled (or equivalent) tabletop steam sterilizer with built-in steam generator, and vacuum pump for both pre-vac (to remove air) and post-vac (to help drying) cycles.

Technical Specifications

Category	Specification	Compliance		If non-compliant, state your specs
		Y	N	
Class	B			
Material/Finish	External body: Corrosion-resistant, scratch-resistant galvanized steel or carbon steel			
	Supply & waste water tanks: SS 304 or carbon steel			
	Sterilization chamber, valves & racks: SS 316			
	Pipes: state your material			
	Insulation: provide material, thickness & properties			
Preprogrammed cycles	Wrapped: 134 °C			
	Unwrapped: 121 °C & 134 °C			
	Porous 121 °C			
	Flash 134 °C			
	Bowie & Dick test			
	Vacuum test			
External Dimensions	500 mm x 450 mm x 450 mm $\pm$ 20%			
Internal chamber	$\geq$ 20 L			

Category	Specification	Compliance		If non-compliant, state your specs
		Y	N	
	At least 2 racks			
Option	Can be connected to a thermal printer to print sterilization cycle validation data.			
	0.2 microns air filter on inlet of pump			
Display H/W	Built-in touch with Interactive menu			
	Size $\geq$ 5''			
Display Data	Date and time			
	Cycle phase, duration, and time left			
	Temperature & Pressure			
	Wait door unlock			
	Water tank level			
	Maintenance schedule			
	Auto start self-test			
Process control	Uniform spatial temperature distribution $\leq$ 1% error			
	Accuracy of setpoint: $\leq$ 1% error			
Alarms	Failed test			
	Failed cycle			
Safety	Automatic door locking during operation			
	Cycle will not start with Door not locked			
Electronic data logger	Internal memory allows for storage of history of full data of sterilization cycles including date, time, temperature, pressure and sterilization success/failure.			
	Port/Slot for SD card or flash memory			

Category	Specification	Compliance		If non-compliant, state your specs
		Y	N	
Power consumption	Please specify (the lower the better)	N/A	N/A	
Accessories	Tray lifter			
Similar to:	CISA series 200	This Area is for Technical Evaluation by Consultant		
Typical Photo				