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INNOVA
The passion for science

INOVPSS Series

Vertical Pressure Autoclave

Qingdao Innova Bio-meditech Co., Ltd.

Overview >>>

     With saturated steam as sterilization medium, INOVPSS series vertical pressure steam sterilizer discharges coldair through gravity so that the saturated steam completely penetrates to the surface of articles. Using thesaturated steam under high pressure to kill all microorganisms and their spores, it can achieve reliable sterilization effect, and is the most effective method in physical sterilization, it is suitable for medical service and healthcare, scientific research, university laboratories, hospitals at all levels, centers for disease control and preven.tion, inspection and quarantine institutions as well as other relevant enterprises and institutions, and is widelvused in medical service, medicine, biochemistry, agricultural science, laboratories, colleges and universitiesand other sectors for sterilization for rubber, dressing, liquid, devices, etc.

Features >>>

1.Top Flip-up Door Opening Structure
Uses the compact top-and-bottom opening design.

2.Door Locking Technology
Uses the multi-point evenly-distributed synchronous linkage press-fit technology, making the door sealing more reliable.

3.Humanized Operation Interface
Uses a 7-inch true color touch screen to display the parameters at the same time: sterilization temperature, sterilization time, sterilization mode, door status, article temperature, operation process status, sterilization process curve diagram and alarm status, etc.

4.Rich Program Content
Presets 10 standard programs and 200 custom programs so that normal sterilization, solid, liquid, agar medium dissolution and insulation, waste, etc. can be handled by making simple settings.

5.Quick Cooling
Comes standard with a cooling fan, thus shortening the cooling time.

6.Double-temperature Testing in the Internal Chamber
The sterilizer is provided with a fixed temperature probe (optional), which is movable, for which different temperature control modes can be set based on different loads such as solid & liquid sterilization and user requirements. Dual detection and sterilization is more safe and reliable.

7.Printing
The sterilizer is provided with a needle printer (optional), which can print the temperature, time, steam discharge, cooling, start time and end time of sterilization in the process of sterilization. Built-in with F0 value calculation function, it can print F0 value, convenient for users to record and trace.

8.Auto Start
Sterilization programs are able to run automatically at a set time.

9.Memory Storage
The sterilizer is able to store 20,000 pieces of sterilization records, and allows access to the historical data and the export with a USB disk.

Technical Parameters

Model		INOVPSS-60	INOVPSS-85	INOVPSS-100
Model	Intracavity volume (L)	60	85	100
	Dimensions (W × D × H) mm Sterilization chamber size	650×660×865	650×660×1030	650×660×1155
	(Diameter x Height) mm	φ405×506	φ405×706	φ405×831
	Working power supply	AC220V±10% 50Hz		
Chamber body	Material of sterilization chamber	2.5 mm thick 06Cr19Ni10 stainless steel		
	Heater for sterilization	3200W×1		
	Cooling fan	Axial flow fan		
	Design pressure (MPa) Maximum working	0.35		
Performance	pressure (MPa)	0.27		
	Design temperature	150°C		
	Working temperature for sterilization	105°C~138°C		
	Working temperature for dissolution	60~100°C		
	Unlocking temperature	40°C~99°C		
	Temperature display accuracy	0.1°C		
Cover structure/Cover opening (closing) mode		Manual top-and-bottom opening/closing type (with safe locking structure)		
Locking mode		4 claws for locking		
Steam discharge mode		Built-in condenser and water collection tank, automatic internal discharge, without steam external discharge		
Verification interface		G1/2A pressure verification interface and G1A temperature verification interface reserved		
Controller	Temperature control mode	Microcomputer automatic control, 7" LCD touch screen		
	Storage system	The memory stores 210 programs and the USB disk stores 20,000 pieces of sterilization process records.		
	Operating function (working mode)	Bare device, encapsulated device, dressing procedure, rubber procedure, liquid procedure, liquid with insulation, agar melting, medium sterilization, medium dissolution, waste sterilization, custom program 1 and custom program 2 available.		
	Other functions	Program lock, reservation, memory, forced cooling, fault recording, cumulative time, cumulative operation times, time display, operating sound ON / OFF setup, article temperature sensor (optional), data reading and F0 value calculation.		
	Timer presetting range	No limited sterilization time		
	Pressure gauge display range	-0.1~0.5MPa		
Safety device		Sensor failure alarm, heater wire breakage, pressure safety valve, door safety interlock protection, electromagnetic lock protection, pressure lock protection, water level sensor, overtemperature protection and leakage protection.		
Accessories	Stainless steel basket (Diameter x Height) mm	(Φ360×320) ×1	(Φ360×260) ×2	(Φ360×320) ×2
	Accessories included	1x heater baffle and 0.6 m drain pipe	1x heater baffle and 0.6 m drain pipe	1x heater baffle and 0.6 m drain pipe

The operator can modify the door opening temperature according to the working conditions to ensure use safety

The chamber door is fixed with a four claws, and the double locking protection achieved by an electromagnetic lock and an pressure safety lock can prevent the claws from being opened due to non-human factors

The operating system monitors the device status in real-time. Once a fault occurs, the large-size screen automatically displays the fault information, accompanied by a beep prompt

Open door temperature setting

Cavity cover locking protection

Fault self-test

Safety

Overpressure self-evacuation protection

Low water level double protection

When the internal pressure of the sterilizer exceeds a certain value, the safety valve will automatically open and release the internal pressure to avoid the excessive internal pressure.

Closed door and door status detection

Over temperature protection

With the double low water level protection achieved by the water level monitoring float switch + anti-dry burning probe, the sterilizer will not start the sterilization program when the water level is too low

The OS will automatically detect the state of the door. If the door of the sterilizer is not closed to the proper position, the screen will display the message of "Door Open", and the sterilization process will not be started. The claws will be open when the door is open to avoid interference in the door due to misoperation to close the door

In the sterilization process, once the temperature rises abnormally beyond the limit, heating will be stopped immediately to protect the equipment and sterilization samples in operation