

SX

Autoclaves SX series

[SX-300E] [SX-500E] [SX-700E]

Research Use Only



SPEEDY AUTOCLAVES SX SERIES

SX

Maximized chamber

Autoclaves SX series

[SX-300E] [SX-500E] [SX-700E]



[SX-300E]



[SX-500E]

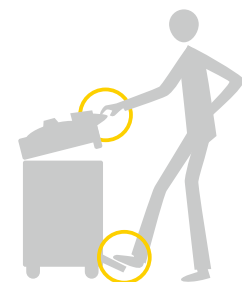


[SX-700E]

Easy operation using the “Top-open lid”



A top-open lid, which can be operated easily with a single hand or foot, is provided with the SX autoclaves. To open the lid, the lid lock is released by stepping on the foot pedal located at the bottom while pressing the lid down. The lid can be opened with minimal effort owing to mechanical assistance. In addition, the lid can be closed easily just by pressing it down.



capacity at Minimum installation space

SPEEDY AUTOCLAVES

Saving the installation space

The main body is very compact owing to the design which provides thorough installation space saving. In addition, installation space at the side of the main body which is required for models employing a slide-open lid, which is not necessary at SX autoclaves top-open lid. Even when several SX autoclaves are installed side-by-side, the necessary installation space is minimized.

Cooling fan provided as a standard feature

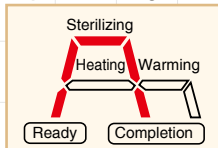
A rapid air-cooling function (vessel-cooling fan) permitting reduction of chamber cool down time is provided as a standard feature. This is most appropriate for lowering the temperature rapidly on completion of the cycle. The time required for lower the temperature is much reduced by employment of the cooling fan in comparison with natural cooling.

Sterilizing course selection

The optimal sterilizing course can be selected from among five courses, such as the liquid sterilizing course in addition to that for normal sterilization.

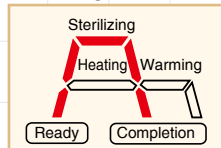


Liquid sterilizing course



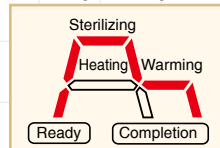
This is most appropriate course setting for prevention of sudden sample boiling

Sterilizing course



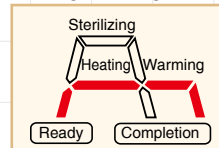
Course for normal sterilization

Sterilizing-warming course



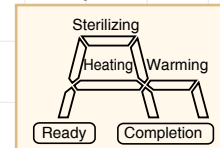
Prevents culture media from coagulating after sterilization.

Heating-warming course



Extremely convenient for dissolving culture media and warming

Memory recall



Preferred operating conditions can be recalled up easily.

Easily viewable "work monitor"

The LED display shows working status for easy monitoring. The process being performed is indicated by an LED indication lamp blinking in red.



The illuminated display on the operating panel shown in the picture is different from the actual display at the time of operation.

Timer function

The operation starting time can be preset easily. By presetting the start of operation, otherwise wasted periods at night or early morning, can be used effectively.

Option

External sensor for the articles to be sterilized

Sensor for directly detecting the temperature of articles to be sterilized. More reliable sterilization monitor can be carried out.

Large indication lamp "Operated"

An easily viewable large indication "Operated" is provided at the upper section of the operating panel. Depending on the pressure status (normal pressure/pressure is applied), the displayed color changes.

Auto-variable exhaust speed

A function allowing the exhaust valve to open automatically after completion of sterilization is provided. The exhaust speed can be set to one of six levels (set to variable for liquid sterilization).

Lid interlock

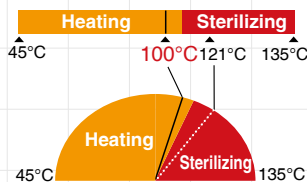
A safety device (lid interlock mechanism) for locking the lid during operation is provided. A high level of safety is assured to prevent unanticipated accidents.

Data output

The temperature data, pressure data, etc. can be exported. The temperature can be recorded when the external recorder is connected.

Setting to 100°C is possible.

Variable temperature setting such as to 100 °C as well as to 121 °C has been made possible. The temperature can be set within the range from 45 °C to 135 °C in steps of one degree (heating mode up to 104 °C).



Water level detector

A safety device (water level detector) for preventing dry heating is provided. The device is designed to detect the water level through the micro electrolytes of the sterilizing water.

Pressure fine adjustment function

When the balance between the temperature and pressure deviates during sterilization, fine exhausting is carried out automatically in order to adjust the best chamber condition.

Functions

Liquid sterilizing

Heating

Warming

Last-run memory

Lid opening/closing detection mechanism

Exhaust bottle detection mechanism

Specifications

Model name	SX-300E	SX-500E	SX-700E
Operating Temperature Range	Sterilizing 105 to 135°C (0.019 to 0.212MPa)		
	Heating 45 to 104°C (0 to 0.015MPa)		
	Warming 45 to 95°C		
Maximum Operating Pressure	0.263MPa		0.25MPa
Temperature Display	Digital		
Pressure Gauge Display	Analog		
Display Range	0 to 0.4MPa		
Heat Source	1.5 kW electric heater	2.0 kW electric heater	3.0kW electric heater
Safety Device	• Safety Valve, • Lid Interlock, • Leakage Breaker, • No Water Heating Prevention, • Over-temperature Prevention, • Over-pressure Prevention, • Temperature Sensor Malfunction Detection, • Pressure Sensor Malfunction Detection, • Exhaust Valve Malfunction Detection, • Low Sterilizing Water Level Detection, • Chamber Lid Open/Close Detection, • Exhaust Bottle Detection		
Protection Type Against Electrical Shock	Class I equipment		
Time Display	Digital		
Setting Range	Sterilizing 0:01 to 9:59 / 1 to 99 hours / 1 to 999 minutes / 0:01 to 9:59, 10 to 99 hours (Selectable)		
	Heating		
	Warming 1 to 99hours		
Pressure Chamber Type	PED Category II		
Chamber Dimensions	φ 325×553mm	φ 325×733mm	φ 370×774mm
Effective Diameter × Effective Depth	φ 315×458mm	φ 315×638mm	φ 360×675mm
Chamber Capacity	44 L	58 L	79 L
Chamber Material	SUS304		
Dimensions (mm) (Excluding protruding)	410W, 477D, 817H	410W, 477D, 997H	470W, 528D, 1036H
Weight	50kg	60kg	72kg
Rated Voltage	230V AC		
Power Input	7A	9A	13A
Power Requirements	AC230V 50/60Hz 10A 1P	AC230V 50/60Hz 15A 1P	AC230V 50/60Hz 15A 1P
Power Consumption (Calorific power)	1.5kW (1290kcal/h)	2.0kW (1720kcal/h)	3.0kW (2580kcal/h)
Compliance of Standard	CE marked*1 •EMC Directive 2014/30/EU, •Low Voltage Directive 2014/35/EU, •Pressure Equipment Directive 2014/68/EU, •RoHS Directive 2011/65/EU, (EU)2015/863		
Environmental Conditions	When operating the autoclave, observe the environmental conditions given below. Ambient temperature: 10 to 35°C Atmospheric pressure: 860 to 1060hPa Relative humidity: 30 to 85% Maximum gradient: 2°		
Accessories	Stainless baskets (φ300 × 181 mm) 1	Stainless baskets (φ300 × 181 mm) 2	Stainless baskets (φ345 × 181mm) 2
	Chamber bottom Plate 1, Caster stoppers 4, Operation Manual 1, Clear folder (for storing the operation manual) 1, Screw (for attaching the clear folder) 1, Digital Warranty Information 1, Customer card 1, Inspection Sheet 1		

*1 Please refer to the "EU Declaration of Conformity" for detailed standard application.

Option / Accessories

Printer

Operating parameters, chamber temperature, chamber pressure, temperature for articles to be sterilized, and sterilization cycle process can be printed.



Temperature Sensor for Articles to be Sterilized

Directly detects the temperature for articles to be sterilized.



Stainless Basket



Stainless Bucket



Long Basket



Sterilization Bag

Features

- Fine pressure adjustment function
- Ion detector for water level detection
- Microprocessor for controlling temperature
- Standard equipped cooling fan (2 fans)
- Variable exhaust speed (6 levels)
- Operation start timer
- Built-in exhaust bottle (polypropylene)
- Compact design
- Low working table
- Flat internal surface of the chamber
- Top-open lid
- Foot pedal to open lid
- Intuitive display with work monitor
- Operation indication lamp
- Liquid sterilizing course selectable
- Compliance with CE standard (European standard)

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