

*Speedy Autoclaves*  
*SX-300E/SX-500E/SX-700E*

CE 0036



**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.



**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.

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**Sterilizing course selection**

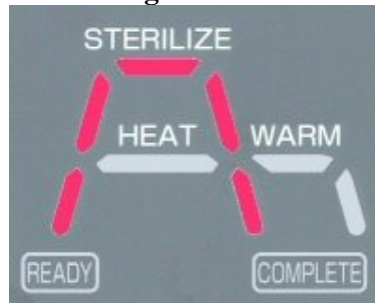
The optimal sterilizing course can be selected from among five courses, such as the liquid sterilizing course in addition to that for normal sterilization

- **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.

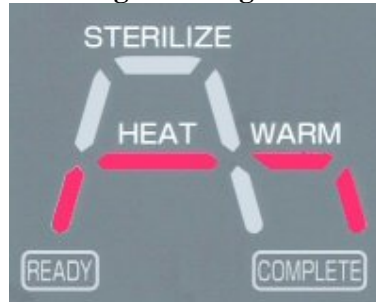
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**- Heating-warming course**



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.

**Large indication lamp "Operated"**

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

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**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.

**Setting to 100 degree celsius is possible**

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

**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.

**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.

**Data output**

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

**External sensor and recorder**

A temperature sensor and recorder independent of the autoclaves. The chamber temperature can be recorded.

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## Accessories



**Stainless Basket**

The entire basket is made of punched metal and is designed for easy penetration of steam.



**Stainless Bucket**

Bucket without holes to prevent leakage of liquid from articles being sterilized.



**Stainless Long Basket**

Optimal for sterilizing the sterilizing bag. The structure of the lower section is without holes.



**Stand for testing Durham's tubes**

Convenient for sterilizing test tubes containing culture media. Can be used as a stand independently.

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### Specifications

Model		SX-300E	SX-500E	SX-700E
Operating temperature range	Sterilizing	105 to 135 degree celsius (0.019 to 0.212MPa)		
	Heating	45 to 104 degree celsius (0 to 0.015MPa)		
	Warming	45 to 95 degree celsius		
Maximum operating pressure		0.263MPa		0.25MPa
Temperature	Display style	Digital		
Pressure gauge	Display	Analog		
	Display	0 to 0.4MPa		
Heat source		1.5 kW electric heater	2.0 kW electric heater	3.0 kW electric heater
Safety device		Water level sensor, Current leakage breaker, Lid interlock, Over-heat prevention, Over-pressure prevention, Open temperature sensor detection, Safety valve		
Protection type against electrical shock		Class I equipment		
Time	Display	Digital		
	Display range	Sterilizing	1 to 99 hours, 1 to 999 minutes (variable: 0:01 to 9:59/10 to 99)	
		Heating		
Warming	1 to 99 hours, 4 hours (changeable)			
Pressure chamber type		PED Category II		
Chamber dimensions		Diameter325 x553 mm	Diameter325 x733 mm	Diameter370 x774 mm
Effective capacity		Internal volume: 45 L	Internal volume: 60 L	Internal volume: 83 L
Chamber material		SUS304		
Dimensions (mm)		410W, 477D, 790Hmm (With projection: 574 D)	410W, 477D, 970Hmm (With projection: 574 D)	470W, 528D, 1003Hmm (With projection: 625 D)
Weight		50kg	60kg	72kg
Rated voltage		230V AC		
Rated voltage		7A	9A	13A
Power input		Single-phase 230 V AC (50/60 Hz) 10 A or more	Single-phase 230 V AC (50/60 Hz) 15 A or more	Single-phase 230 V AC (50/60 Hz) 15 A or more
Power consumption		1.5kW	2.0kW	3.0kW
Accessories		Stainless basket (Diameter300 x182 mm) *1	Stainless basket (Diameter300 x 182 mm) *2	Stainless basket (Diameter345 x 181 mm) *2
		Caster stoppers 4, Slatted Bottom Plate 1, Operator's Manual 1, Clear Plastic Accessory Case 1, Attachment Screw Plastic Accessory Case 1, Warranty card 1, Customer card 1, Inspection sheet 1		

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