

## Lab Autoclaves | Standard

## SN200C/210C/300C/310C/500C/510C, SQ500C/510C/800C/810C

Operating temp. range 45~135°C

Max. working pressure 0.255MPa

Internal capacity 20L 32L 47L 50L 80L

A high-performance, easy-to-operate autoclave with an ergonomic design, equipped as standard with a cooling fan to shorten cool-down time.



## Features

- Maximum sterilizing temperature goes up to 135°C, suitable for protein modification.
- By simple setting and operation, these sterilizers manage ordinary sterilization, sterilization of culture mediums and liquids, and dissolution of culture mediums.
- Custom programs can be saved for repeated use.
- Equipped as standard with cooling fan to shorten cool down time.
- The control panel and display are conveniently located on the front of the lid for easy viewing and operation.
- Equipped with multiple pressure lid opening protection locks and comprehensive safety measures.
- The SQ model features a low bed design, making it highly suitable for the retrieval of sterilized items.
- Compatible for overseas use with a wide power range of AC100-120V and AC200-240V.

## Specifications

Model	SN200C	SN210C	SN300C	SN310C	SN500C	SN510C	SQ500C	SQ510C	SQ800C	SQ810C	
System	Automatic high-pressure steam sterilization										
Performance	Operating temp. range		45~135°C 45~80°C (preheat temp.) /45~60°C (retain temp.) /65~100°C (melting)/105~135°C (sterilizing)								
	Temp. unit		0.1°C								
	Max. working pressure		0.255MPa								
Lid structure		Manual upward opening and downward closing with an interlock for safety									
Chamber	Material		3mm thick corrosion-resistant stainless steel, featuring a mirror finish surface								
	Design operational life		20 years								
	Design pressure		0.42MPa								
	Design temp.		151°C								
	Heater		110V, 968W×2			110V, 1150W×2		110V, 1210W×2		110V, 1500W×2	
	Exhaust valve		One quick exhaust valve and one slow release valve								
	Options		Sample sensor interface (1/4), data logger sensor interface (1/4), pressure gauge interface (on solenoid valve piping)								
Cooling fan blade		Axial fan motor									
Controllers	Temp. control, display/setting method		PID control by microprocessor, digital display/digital setting by ▲/▼ keys								
	Timer		Timer: 0 or 1 min~99 h 59 min, timer resolution: 1 min								
	Operation functions		Melt and warm, sterilize and warm, liquid sterilize, normal sterilize, manual mode								
	Other functions		Key locking, presetting, saving, preheating, forced cooling, sample temperature sensor (option), pattern locking, alarm log saving (20 pcs), display of accumulated working time/present time, ON-OFF beeping setting								
Safety device		Sensor failure detection, SSR short-circuit detection, broken heater wire detection, prevention of air burning (liquid expansion type thermostat), alarm against the absence of drain bottle, failure in locking the lid detection, memory error detection, pressure relief valve (0.255 MPa)									
Pressure vessel specification		Class I pressure vessel									
Specification	External dimensions (W×D×H mm)		460×590×848		460×590×848		460×590×1058		520×660×881		520×660×1161
	Effective dimensions of chamber (diameter×height mm)		300×305		300×445		300×665		370×470		370×750
	Internal effective capacity of chamber		20L		32L		47L		50L		80L
	Weight		Approx. 65kg		Approx. 75kg		Approx. 85kg		Approx. 95kg		Approx. 105kg
	Power supply (50/60Hz)		AC115V 18.5A	AC220V 9A	AC115V 18.5A	AC220V 9A	AC115V 22A	AC220V 10.5A	AC115V 23A	AC220V 11A	AC115V 29A
Accessories	Basket OSM-60 (diameter 274×height 125mm), 2 PCS		Basket OSM-70 (diameter 274×height 200mm), 2 PCS		Basket OSM-70 (diameter 274×height 200mm), 3 PCS		Basket OSQ-90 (diameter 344×height 200mm), 2 PCS		Basket OSQ-90H (diameter 344×height 300mm), 2 PCS		
	1 steam collection cup, 1 drain bottle, 1 heater baffle, 1 set of sterilization test cards (30 cards), 1 filter, 1m drainage pipe 1 hose clamp, long-arm clamp (SQ800C/SQ810C model only), 1 drip tray, instruction manual										
Options		Biosafety filtration system, sample temperature sensor, internal chamber temperature measurement sensor, data logger, temperature output terminal (4~20mA), external alarm output terminal, time-up output terminal, standard basket, extended height basket									

1 Sterilizers

2 Granulation and Spray Dryers

3 Furnaces

4 Ovens

5 Incubators

6 Plasma Equipment

7 Water Purifiers

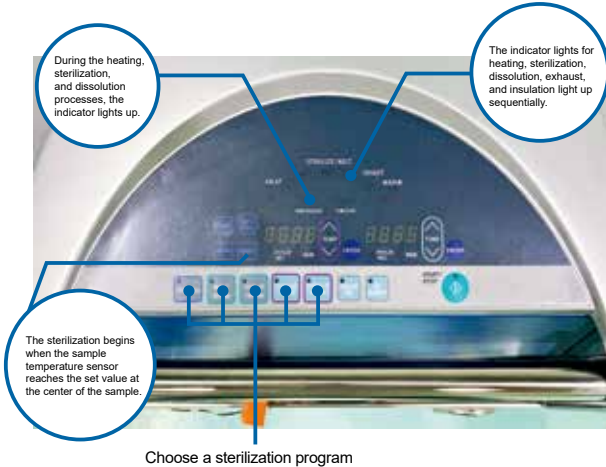
8 Baths

9 Water Circulators

10 Rotary Evaporators

11 Stirrers &amp; Shakers

12 Options



- Instrument sterilize** Sterilization of lab instruments and vessel such as flask, beaker, test tube, scissors.
- Fluid sterilize** Sterilization and disinfection of culture media, reagents, or other solutions, and keeps them warm after sterilization.
- Sterilize & Retain temp.** Dissolving culture media and maintaining them at a specific temperature to prevent solidification.
- Melt & Retain temp.** Sterilization of purified water, deionized water, and dilution water.
- Custom program** Customized temperature and time settings.

**Comply with GLP/GMP inspection**



Equipped as standard with 2 sensor ports on the main unit.



Optional data logger and high performance pressure gauge.



**Multiple safety devices**

- Steam collection cup
- Top lid's interlock mechanism
- Alarm against the absence of drain bottle
- Leakage breaker
- During any malfunction, the autoclave will automatically shutdown
- Alarm buzzer sounding and an error message being displayed
- Alarm recording (20 alarms)



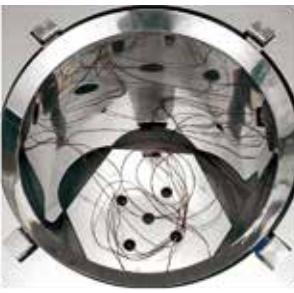
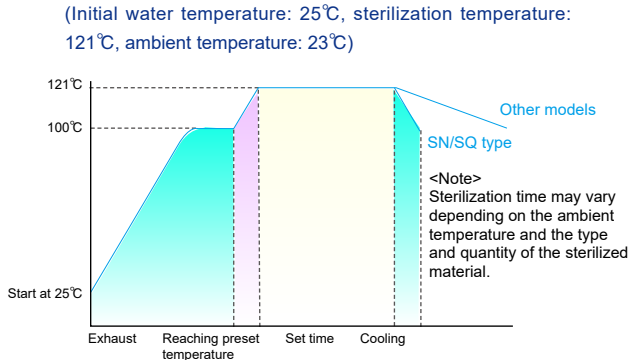
**Easy discharge of sterilization water**

Easier maintenance with larger diameter drain pipe.

**Standard cooling fan**

- Cooling fan operates after sterilization.
- Cooling down to safe temperature.
- Reducing the time before samples can be taken out.
- Free to choose the forced cooling or natural cooling.

**Comparison of cooling time with other devices**



**Sterilization starts automatically according to sample temperature sensor**

The optional sample temperature sensor controls sterilization time based on the temperature of the sterilized material, ensuring effective sterilization.



**Drain bottle located at the front**

The drain bottle is set inside the front door for easy monitoring of the water level.

**Space-saving top-opening lid design**

Require less setup space compared to other machines.

**Maximum set temperature of 135°C**

The maximum set temperature of 135°C is suitable for protein modification.

**Time-saving**

Equipped as standard with automatic start and preheat function to improve time efficiency.

**Universal power supply (selectable power)**

All models offer a choice of AC100-120V and AC200-240V (single phase) power supply.

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