

Lab Autoclaves | Standard

SN210C/310C/510C, SQ510C/810C

Operating temp. range 45~135°C

Max. working pressure 0.255MPa

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

High-performance, easy operation and ergonomically designed autoclave, standard equipped with 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.
- Standard equipped 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	SN210C	SN310C	SN510C	SQ510C	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 (dissolution)/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	Instrument sterilization, liquid sterilization, sterilization and retain temp., dissolution and retain temp., 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 thermoestat), 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) rated current	AC220V 9A		AC220V 10.5A	AC220V 11A	AC220V 14A
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 (SQ810C model only), 1 drip tray, user manual, warranty certificate					
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 Muffle Furnaces

4 Ovens

5 Incubators

6 Plasma Equipment

7 Water Purifiers

8 Baths

9 Water Circulators

10 Rotary Evaporators

11 Freeze Dryers & Cold Traps

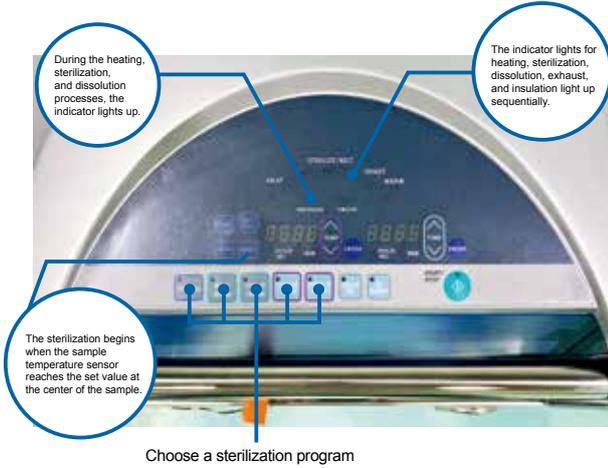
12 Stirrers & Shakers

13 Washers

14 Analysis and Test Devices

15 Options

CE Certification



- 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 refining water, purified water and dilution water.
- Custom program** Customized temperature and time settings.

Comply with GLP/GMP inspection



Standard equipped 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

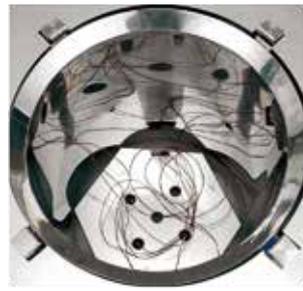
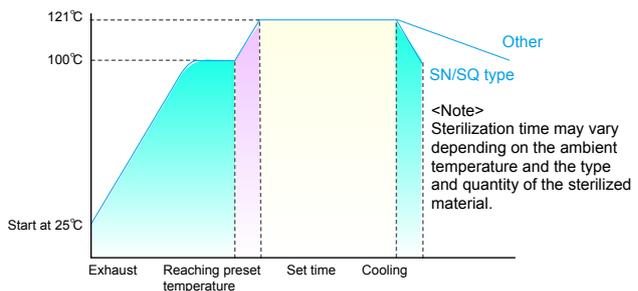
Easier maintenance with larger diameter drain pipe.

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

(Initial water temperature: 25°C, sterilization temperature: 121°C, ambient temperature: 23°C)



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

Standard equipped with automatic start and preheat function for more efficient time using.

Universal power supply (selectable power)

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

Sterilizers	1
Granulation and Spray Dryers	2
Muffle Furnaces	3
Ovens	4
Incubators	5
Plasma Equipment	6
Water Purifiers	7
Baths	8
Water Circulators	9
Rotary Evaporators	10
Freeze Dryers & Cold Traps	11
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