Lab Autoclaves | Standard

SN201C/211C/301C/311C/501C/511C, SQ511C/811C

Operating temp. range	45~138℃

Max. working pressure	0.3MPa

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

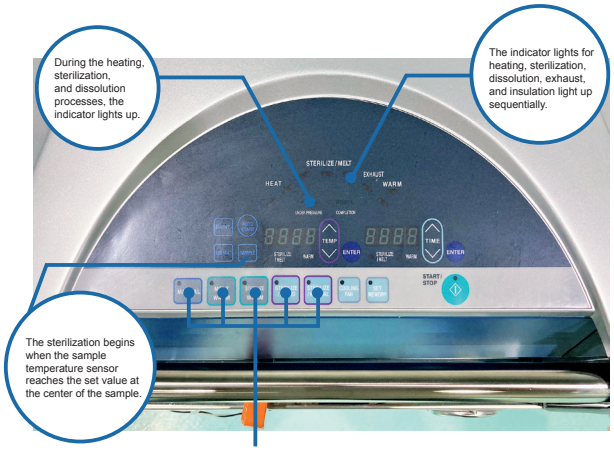
A high-performance, easy-to-operate autoclave with an ergonomic design, equipped as standard with a cooling fan to shorten cool-down time.

Features

- Maximum sterilizing temperature goes up to 138℃, 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.
- Two handles on each side, convenient for transportation.

Specifications

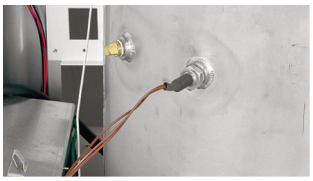
Model		SN201C	SN211C	SN301C	SN311C	SN501C	SN511C	SQ511C	SQ811C
System		Automatic high-pressure steam sterilization							
Performance	Operating temp. range	45~138℃ 45~80℃ (preheat temp.) /45~60℃ (retain temp.) /65~100℃ (melting)/105~138℃ (sterilizing)							
	Temp. unit	0.1℃							
	Max. working pressure	0.3MPa							
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℃							
	Heater	115V, 2500W	220V, 2500W	115V, 2500W	220V, 2500W	115V, 2500W	220V, 2500W	110V, 1500W×2	110V, 2000W×2
	Exhaust valve	One quick exhaust valve and one slow release valve							
	Options	Sample sensor interface (Rc 1/4), data logger sensor interface (Rc 1/2), 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 (0.3MPa)							
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		370×465	370×745
	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 22A	AC220V 12A	AC115V 22A	AC220V 12A	AC115V 22A	AC220V 12A	AC220V 14A	AC220V 19A
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 (SQ811C 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							



Choose a sterilization program

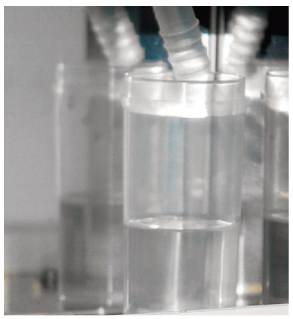
Instrument sterilize	Sterilization of lab instruments and vessel such as flask, beaker, test tube, scissors.
Fluid sterilize	Sterilization and disinfection of culture media, reagents, or other solutions, and keeps them warm after sterilization.
Sterilize & Retain temp.	Dissolving culture media and maintaining 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

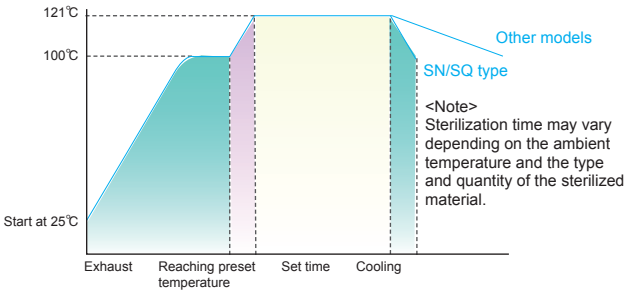
Easier maintenance with larger diameter drain pipe.

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.

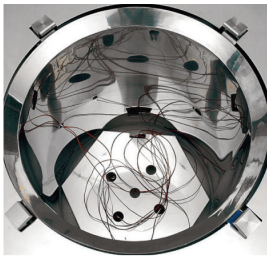
Comparison of cooling time with other devices

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



<Note>
Sterilization time may vary depending on the ambient temperature and the type and quantity of the sterilized material.

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.

The safety valve is located on the side

The safety valve is easy to remove when it requires replacement or calibration.