Lab Autoclaves | Touch Panel, Large Capacity

SJL810C/1010C

Operating temp. range	45~135℃

Max. working pressure	0.255MPa

Internal capacity	85L	110L

The steam sterilizer features a 110L large capacity, with touchscreen for easy operation with advanced functions.



Features

- 7-inch large touchscreen, easy operation with options for Chinese, Japanese and English languages, along with a three-level authorization management system.
- Maximum sterilizing temperature goes up to 135℃, 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.
- Equipped with multiple pressure lid opening protection locks and comprehensive safety measures.
- Display power consumption, accumulated power usage, CO_2 emissions, accumulated power-on time, accumulated operating time, and accumulated times of operations.

Specifications

Model		SJL810C	SJL1010C
System		Automatic high-pressure steam sterilization	
Performance	Operating temp. range	45~135℃: 45~80℃ (preheat temp.)/45~60℃ (retain temp.)/60~110℃ (melting)/105~135℃ (sterilizing)	
	Temp. unit	0.1℃	
	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℃	
	Sterilization heater	220V, 2000W×2	
	Exhaust valve	One quick exhaust valve and one slow release valve	
	Options	Sample sensor interface (Rc1/4), temperature test interface (G1), pressure test interface (G1/2)	
	Cooling fan blade	Axial fan motor	
Controllers	Temp. control method	PID control by microprocessor	
	Temp. control setting/display method	7-inch color LCD touchscreen for display and settings	
	Timer	1 min - 99 h 59 min (resolution: 1 min)/100 h - 999 h (resolution: 1 h)	
	Operation functions	Melt and retain temp., sterilize and retain temp., instrument sterilize, fluid sterilize	
	Additional functions	Power consumption, accumulated power usage, CO_2 emissions, accumulated power-on time, accumulated operating time, and accumulated times of operations	
	Other functions	Key locking, presetting, saving, preheating, forced cooling, sample temperature sensor (option), pattern locking, alarm log saving (20 pcs), display of present time, ON-OFF beeping setting, language switch function (Chinese/Japanese/English) and three-level authorization management system	
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)	680×760×997	680×760×1154
	Effective dimensions of chamber (diameter×height mm)	450×535	450×692
	Internal effective capacity of chamber	85L	110L
	Weight	Approx. 145kg	Approx. 170kg
	Power supply (50/60Hz) rated current	AC220V 18.5A	
Accessories		Basket OSQL-90 (diameter 424 × depth 200mm), 2 PCS	Basket OSQL-90H (diameter 424 × depth 300), 2 PCS
		1 steam collection cup, 1 cooling water bottle, 1 heater baffle, 1 set of sterilization test cards (30 cards), 1 filter plug, 1m drainage pipe, 1 hose clamp, long-arm clamp (SJL1010C model only)	
Options		Sample temperature sensor, internal chamber temperature measurement sensor, miniprinter, data logger, temperature output terminal (4~20mA), external alarm output terminal, time-up output terminal, extra 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 & Shakers
12 Options

Low bed mode

● Convenient retrieval of sterilized items.

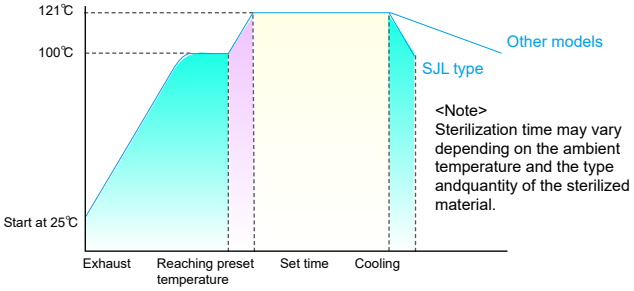


Standard cooling fan

● 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℃)



Control panel

● 7-inch color LCD touchscreen with operation in Chinese, English and Japanese



Main screen



Sterilization parameter



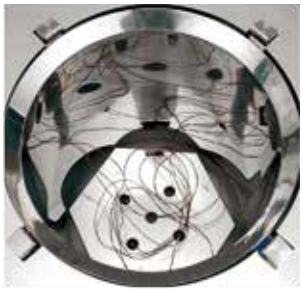
Operation mode selection (instrument sterilization program)



Operation mode selection (melt and retain temp. program)



Sterilization and temp. retain program



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.

Comply with GLP/GMP inspection requirements



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



Optional data logger and high performance pressure gauge.

Space-saving top-opening lid design

Require less setup space compared to other machines.

Maximum sterilization temperature of 135℃

Maximum sterilizing temperature goes up to 135℃ suitable for protein modification.

Time-saving

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

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