

## Lab Autoclaves | Automatic Sterilization, Large Capacity

## SQL810C/1010C

Operating temp. range 45~135°C

Max. working pressure 0.255MPa

Internal capacity 85L 110L

The autoclave features a 110L capacity for easy operation with advanced functions.



### Features

- With 85L and 110L of internal capacity, it can accommodate more items for sterilization in a single cycle.
- 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.

### Specifications

Model		SQL810C	SQL1010C
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	220V, 2000W×2	
	Exhaust valve	One quick exhaust valve and one slow release valve	
	Options	Sample sensor interface (R1/4), data logger sensor interface (G1), pressure interface (G1/2)	
Controllers	Cooling fan blade	Axial fan motor	
	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, 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 thermoet), 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 19A	
Accessories	Basket	Diameter 424× Height 200, 2 pcs	Basket Diameter 424× Height 300, 2 pcs
	1 steam collection cup, 1 cooling water bottle, 1 heater baffle, 1 set of sterilization test cards (30 cards), 1 filter, 1m drainage pipe, 1 hose clamp, long-arm clamp (SQL1010C model only)		
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

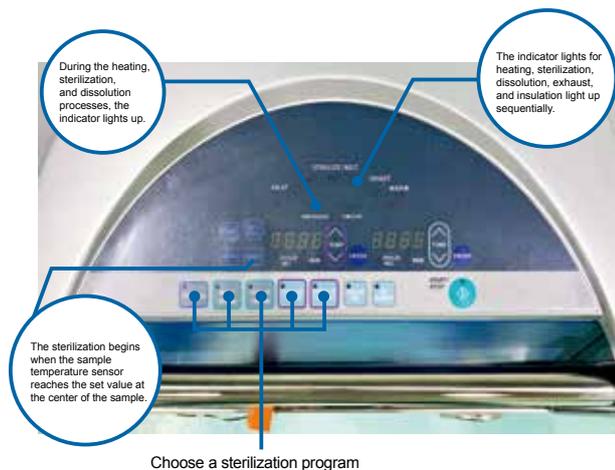
11 Freeze Dryers &amp; Cold Traps

12 Stirrers &amp; Shakers

13 Washers

14 Analysis and Test Devices

15 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 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**

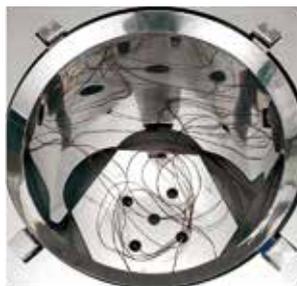
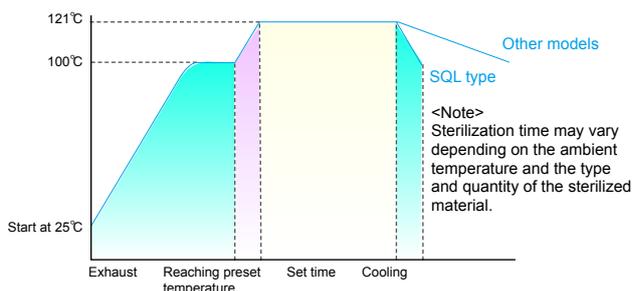
Easier maintenance with larger diameter drain pipe.

**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 located in front for easy access and drain water level can be monitored without opening the cabinet door.

**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.

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
Stirrers & Shakers	12
Washers	13
Analysis and Test Devices	14
Options	15