

# Standard Laboratory Sterilizer



## SN300C/310C/500C/510C

Operating temp. range 45°C to 135°C

Max. operating pressure 0.255MPa

Internal capacity 32L (SN300C/310C) / 47L (SN500C/510C)

**High-performance, easy operation and ergonomically designed sterilizer featuring easy top loading and handling of samples**



- 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 melting of culture mediums
- Custom programs can be saved for repeated use
- Standard equipped with timer start and pre-heating features for efficient use of time and cooling fan to shorten cool down time
- Mobile on wheels

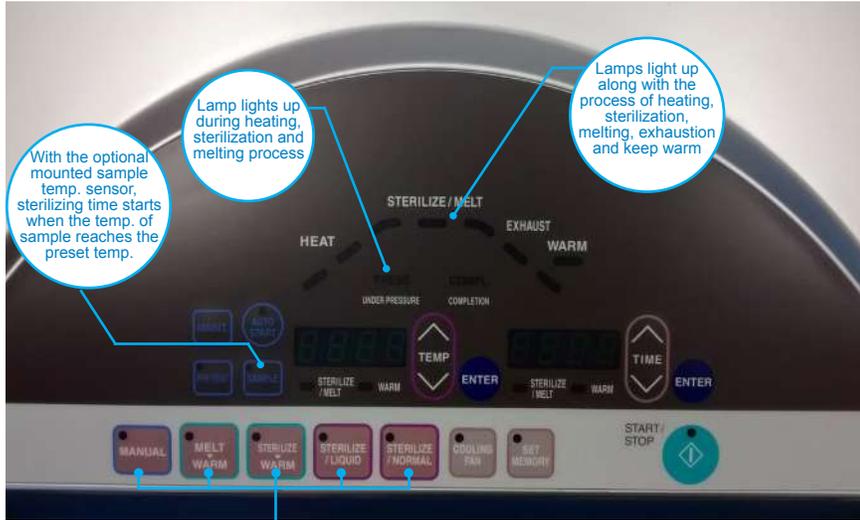
**Enhanced safety device**

- Lid interlock mechanism
- Drain bottle unset alarm
- Memory malfunction
- Automatic shutdown when malfunction
- Self-diagnostic functions

**Specifications**

Model	SN300C	SN310C	SN500C	SN510C
System	Automatic high-pressure steam sterilization			
Operating temperature range	45~135°C			
Max. working pressure	0.255MPa			
Ambient temperature	5~35°C			
Lid	Manual upward opening with an interlock for safety			
Heater	100V, 800W x 2 units		100V, 950W x 2 units	
Exhaust valve	One exhaust valve and one slow release valve			
Connection ports for optional accessories	Total 3 ports. Female thread for sample temp. sensor (1/4" ), Female thread for chamber temp. sensor (1/4" ), Female thread pressure sensor (branching from the solenoid valve tubing)			
Cooling fan	Axial fan motor			
Temp. controller	PID control by microprocessor			
Temp. display / setting	Digital display / digital setting by ▲/▼ keys			
Timer / Timer resolution	0 or 1 min. to 99 hrs 59 min. / 1 min.			
Operation mode	Instrument sterilization course, liquid sterilization course, sterilization and keep warm course, melting and keep warm course, customer-programmed course			
Other function	Key locking, presetting, saving, preheating, forced cooling, sample temperature sensor (option), pattern locking, up to 20 error log saving, display of accumulated working time / present time, ON-OFF beeping setting			
Safety device	Sensor failure detection, SSR short-circuit, broken heater wire, prevention of idle heating (liquid expansion type), alarm against the absence of a drain bottle, failure in locking the lid, memory error detection, pressure relief valve (0.255 MPa)			
External dimensions (WxDxHmm)	400 x 590 x 848		460 x 590 x 1058	
Internal dimensions of chamber	Φ300 x D445 mm		Φ300 x D665 mm	
Internal capacity	32L		47L	
Weight	~75kg		~85kg	
Power source	AC100~120V (15~12.5A) <i>no plug, round terminal</i>	AC200~240V (10~8.5A) <i>no plug, round terminal</i>	AC100~120V (23.5~19.5A) <i>no plug, round terminal</i>	AC200~240V (12~10A) <i>no plug, round terminal</i>
Accessories	2 pcs. stainless steel mesh basket (Φ274 x D200mm)		3 pcs. stainless steel mesh basket (Φ274 x D200mm)	
	Vapor cup x 1, Drain bottle x 1, Drain board x 1, Chemical indicator 1 set (30 pieces), Filter x 1			

## Control panel



Choose a sterilization program

Sterilize/Normal Course	Sterilization of equipment such as flask, beaker, test tube, scissors
Sterilize/Liquid Course	Sterilization of culture and reagents and keep warm
Sterilize Warm Course	Dissolve and keep warm of the agar medium
Melt Warm Course	Sterilization of liquid, purified water and dilution water
Manual Course	Customized temperature and time settings

## Standard Equipped with Cooling Fan & Slow Release Valve

- For decompression and prevention of liquid samples from bumping
- Cooling fan cool to a safe temperature after sterilization completes
- Shortens time before samples are taken out
- Natural cooling by OFF setting

## Features

### Support GLP / GMP Inspection



Standard equipped with 2 sensor ports on the main unit

### Easy to drain out sterilizing water



Easier maintenance with larger diameter drain pipe

## Optional items

Baskets with adjustable stainless steel perforated plate

Mesh baskets

Stainless solid baskets

Baskets with stacking fittings

- Stainless baskets

- Stainless buckets



### Sterilization starts automatically by sample temperature sensor



With the optional mounted sample temperature sensor, desired sample temperature can be precisely maintained to ensure thorough sterilization

### Front Loading Drain Bottle



The drain bottle is located in front for easy access and drain water level can be monitored without opening the cabinet door

Product code	Description	Corresponding models
H060101047	Mesh basket (Φ274 x D200mm)	SN300C/310C/500C/510C
241092	Mesh basket with stacking fittings	SN300C/310C, with two fittings
241091		SN500C/510C, with three fittings
241095	Mesh basket with adjustable stainless steel perforated plate	SN300C/310C, with 1 plate
241094		SN500C/510C, with 2 plates
241084	Stainless solid basket	SN300C/310C/500C/510C
241151	Stainless bucket	SN300C/310C/500C/510C
H060101110*	Chamber temp. sensor	Type T thermocouple, 3 pcs./set
H060101100*	Sample temp. sensor	Type T thermocouple, 1 pc.
Q110604013*	External output terminal	Temp. output, time-up output, alarm output

\* Specify when ordering main unit