Standard Laboratory Use Sterilizer

SN300C/310C/500C/510C

Operating temp. range	45°C to 135°C	Max. operating pressure	0.255MPa	Internal capacity	2L (SN300C/310C) / 47L SN500C/510C

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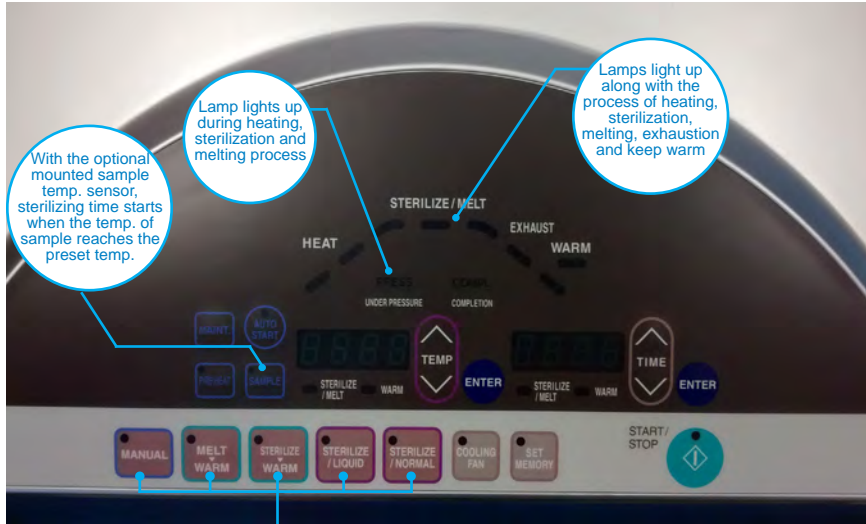

32L
SN300C

47L
SN500C

- 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)	460 x 590 x 848		460 x 590 x 1068	
Internal dimensions of chamber	I.D.300 x D445 mm		I.D.300 x D665 mm	
Internal capacity	32L		47L	
Weight	~75kg		~85kg	
Power source	AC100~120V(15~12.5A) *no plug, round terminal*	AC200~240V(10~8.5A) *no plug, round terminal*	AC100~120V(23.5~19.5A) *no plug, round terminal*	AC200~240V(12~10A) *no plug, round terminal*
Accessories	2 pcs. stainless steel mesh basket (Dia.262 x D204mm), OSM-70		3 pcs. stainless steel mesh basket (Dia.262 x D204mm), OSM-70	
	Vapor cup x 1, Drain bottle x 1, Drain board x 1, Chemical indicator 1 set (30 pieces), Filter x 1			

■ Control panel

With the optional mounted sample temp. sensor, sterilizing time starts when the temp. of sample reaches the preset temp.

Lamp lights up during heating, sterilization and melting process

Lamps light up along with the process of heating, sterilization, melting, exhaustion and keep warm

Choose a sterilization program

Sterilize/Normal Course	Sterilization of equipment such as flask, beaker, test tube, scissors
Sterilize/Liquid Course	Sterilization of culture and re-agents 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
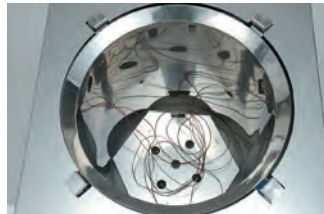

Standard equipped with 2 sensor ports on the main unit

Optional recorder and high performance pressure gauge

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

Easy to drain out sterilizing water

Easier maintenance with larger diameter drain pipe

Front Loading Drain Bottle

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

■ Optional items

Baskets with adjustable stainless steel perforated plate

Mesh baskets

Stainless solid baskets

Baskets with stacking fittings

- Stainless baskets

- Stainless buckets

Product code	Model	Description	Corresponding models
241088	OSM-70	Mesh basket	SN300C/310C/500C/510C
241089	OSM-80		SN500C/510C
241092	OSQ-40	Mesh basket with stacking fittings	SN300C/310C, with two fittings
241091	OSQ-50		SN500C/510C, with three fittings
241095	OSQ-70	Mesh basket with adjustable stainless steel perfoforated plate	SN300C/310C, with 1 plate
241094	OSQ-80		SN500C/510C, with 2 plates
241084	OSR-20	Stainless solid basket	SN300C/310C/500C/510C
241151	OSN12	Stainless bucket	SN300C/310C/500C/510C
Please specify when ordering main unit		Chamber temp. sensor	Type T thermocouple, 3 pcs./set
		Sample temp. sensor	Type T thermocouple, 1 pc.
		Pressure gauge	External installation
		External alarm output terminal	
		Temp. output terminal	4 - 20 mA
		Time-up output terminal	Relay, contact output