Steam Sterilizer (Laboratory Use, Large Capacity)

SQ500/510

Operating temp. range 45°C to 135°C   **Internal capacity** 47.5L

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 slow release valve and cooling fan to shorten cool down time
- Mobile on wheels

47.5L
SQ500

■ Specifications

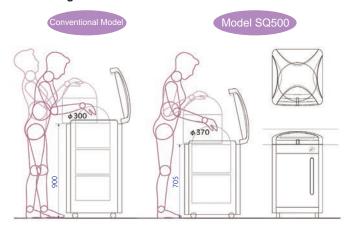| Product code	241008	241057
Model	**SQ500**	**SQ510**
System	Automatic high-pressure steam sterilization*1	
Operating temperature range	45~135°C 〈45~80°C (Preheating temperature)/45~60°C (Heat-retention process)/65~100°C (Solution process)/105~135°C (Sterilization) 〉	
Max. working pressure	0.255MPa	
Ambient temperature	5~35°C	
Lid	Manual upward opening with an interlock for safety	
Heater	1000W×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 minute	
Operation mode	Instrument sterilization course, Liquid sterilization course, Sterilization and keep warm course, Melting and keep warm course, Customer-programmed course	
Other functions	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*2	W520×D660×H846mm	
Internal dimensions of chamber	I.D.370×D442 mm	
Internal capacity	47.5L	
Weight	Approx. 95kg	
Power source (50/60Hz single phase)	AC100~120V (20.5~24.5A)	AC200~240V (10.5~12.5A)
Accessories	2 pcs. stainless steel mesh basket (Dia.332×D195.5mm) OSQ-90	
	Vapor cup×1, Drain bottle×1, Drain board×1, Filter×1	

The length of the power cord is about 3m outside the unit.
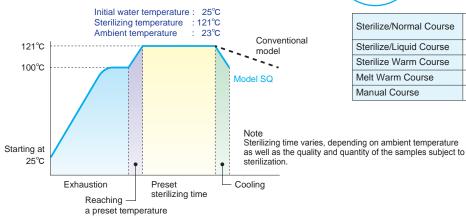*1 This is not a medical device.   *2 Do not include protrusions

■ Low Height Sterilizers

Conventional Model

Model SQ500

φ300

φ370

■ Comparison of the cooling time of model SQ and conventional autoclave

Initial water temperature : 25℃
Sterilizing temperature : 121℃
Ambient temperature : 23℃

121℃
100℃

Conventional model

Model SQ

Starting at 25℃

Exhaustion

Reaching a preset temperature

Preset sterilizing time

Cooling

Note
Sterilizing time varies, depending on ambient temperature as well as the quality and quantity of the samples subject to sterilization.

■ Control panel

Lamp lights up during heating, sterilization and melting process

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

STERILIZE / MELT
HEAT
EXHAUST
WARM
UNDER PRESSURE
COMPLETION

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

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

■ Optional items

No.	Description	Model	Product code
①	Mesh basket	OSQ-90	241099
②	Mesh basket with 2 stacking fittings	OSR-40	241090
③	Mesh basket with 1 adjustable stainless steel perforated plate	OSR-50	241097
④	Stainless bucket	OSN14	241152
⑤	*Chamber temperature sensor, 3pcs/set	OSR-70	241153
⑥	*Sample temperature sensor, 1pc	OSN16	241154
⑦	*Pressure gauge	OSN18	241155
⑧	*External alarm output terminal	OSN20	241157
⑨	*Temperature output terminal (4~20mA)	OSN22	241158
⑩	*Time-up output terminal (Reray, contact output)	OSN24	241159

* Please specify when ordering main unit.

● Stainless baskets

③ Baskets with adjustable stainless steel perforated plate
① Mesh baskets
② Baskets with stacking fittings

● Stainless buckets

④

Steam Sterilizer (Laboratory Use, Large Capacity)

SQ500C/510C/810C

CE

| Operating temp. range | 45°C to 135°C | Max. operational Pressure | 0.255MPa | Internal capacity | 50L SQ500C/510C | 80L SQ810C |

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

50L
SQ510C

80L
SQ810C

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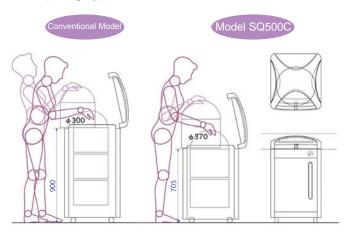
■ Enhanced safety device
- Lid interlock mechanism
- Drain bottle unset alarm
- Memory malfunction
- Automatic shutdown when malfunction
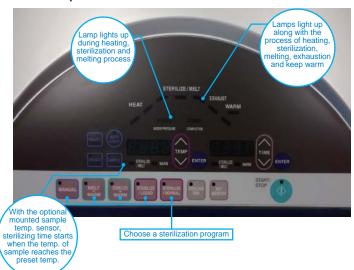- Self-diagnostic functions

■ Specifications

Model	SQ500C	SQ510C	SQ810C
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	120V, 1440W×2 units		115V, 1600W×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 minute		
Operation mode	Instrument sterilization course, Liquid sterilization course, Sterilization and keep warm course, Melting and keep warm course, Customer-programmed course		
Other functions	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 (W×D×Hmm)	520×660×846		520×660×1161
Internal dimensions of chamber	I.D.370×D470 mm		I.D.370×D750 mm
Internal capacity	50L		80L
Weight	Approx. 95kg		Approx. 105kg
Power source	AC100~120V (20.5~24.5A)	AC200~240V (10.5~12.5A)	AC200~240V (10.5~12.5A)
Accessories	2 pcs. stainless steel mesh basket (Dia.332×D195.5mm), OSQ-90		3 pcs. stainless steel mesh basket (Dia.332×D195.5mm), OSQ-90
	Vapor cup×1, Drain bottle×1, Drain board×1, Chemical indicator 1 set (30 pieces), Filter×1		

■ Low Height Sterilizers

SQ500C(low height type)

Conventional Model

Model SQ500C

φ300

φ370

900

705

■ Control panel

Lamp lights up during heating, sterilization and melting process

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

STERILIZE / MELT

HEAT

EXHAUST

WARM

UNDER PRESSURE

COMPLETION

TEMP

ENTER

TIME

ENTER

STERILIZE / MELT

WARM

STERILIZE / MELT

WARM

MANUAL

MELT WARM

STERILIZE WARM

STERILIZE / LIQUID

STERILIZE / NORMAL

COOLING FAN

SET MEMORY

START / STOP

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

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

■ 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
241099	OSQ-90	Mesh basket
241090	OSR-40	Mesh basket with 2 stacking fittings
241097	OSR-50	Mesh basket with 1 adjustable stainless steel perforated plate
241098	OSR-60 *Discontinued	Stainless solid basket
241152	OSN14	Stainless bucket
Please specify when ordering main unit.		Chamber temperature sensor
		Sample temperature sensor
		Pressure gauge
		External alarm output terminal
		Temperature output terminal
		Time-up output terminal