

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

Model	SQ500	SQ510
System	Automatic high-pressure steam sterilization	
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 (W×D×Hmm)	520×660×846	
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	

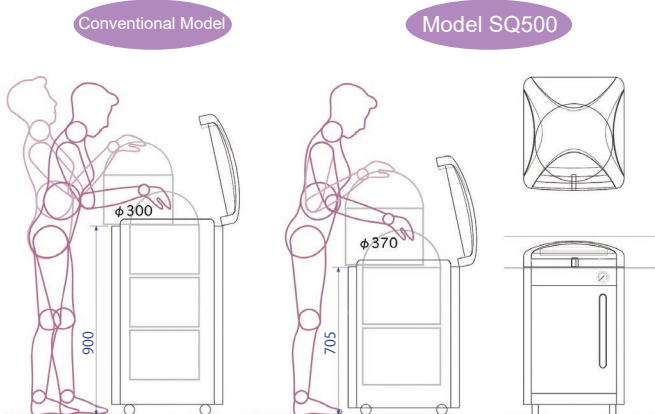
Self-diagnosis

Key lock

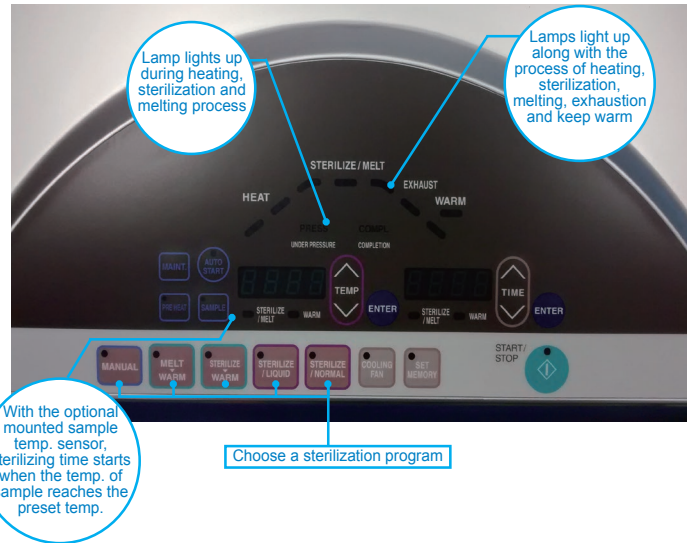
Operation monitor

Overcurrent ELB

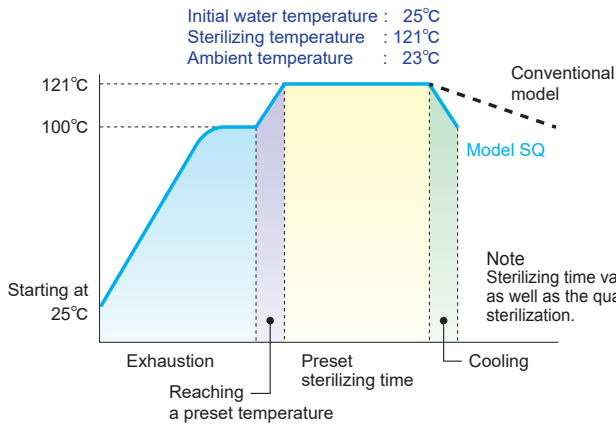
Low Height Sterilizers



Control panel



Comparison of the cooling time of model SQ and conventional autoclave



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

Description	Model	Product code
Mesh basket	OSQ-90	241099
Mesh basket with 2 stacking fittings	OSR-40	241090
Mesh basket with 1 adjustable stainless steel perforated plate	OSR-50	241097
Stainless bucket	OSN14	241152
*Chamber temperature sensor, 3pcs/set	OSR-70	241153
*Sample temperature sensor, 1pc	OSN16	241154
*Pressure gauge	OSN18	241155
*External alarm output terminal	OSN20	241157
*Temperature output terminal (4~20mA)	OSN22	241158
*Time-up output terminal (Reray, contact output)	OSN24	241159

* Please specify when ordering main unit.



● Stainless baskets



● Stainless buckets