# Large Capacity Laboratory Sterilizer

## SQ500C/510C/810C

MADE IN CH

| Operating temp. range | 45°C to 135°C | Max. operating 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
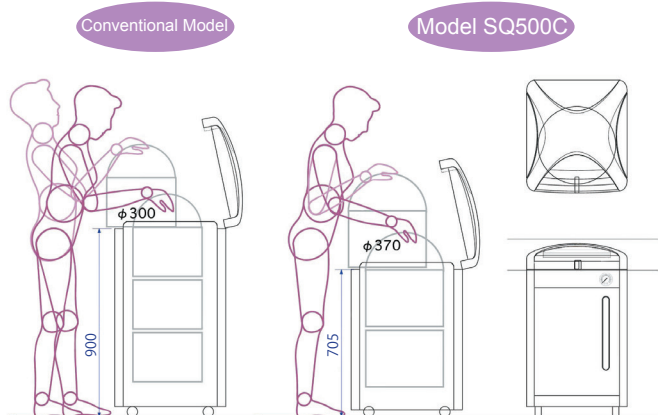


50L
SQ510C

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
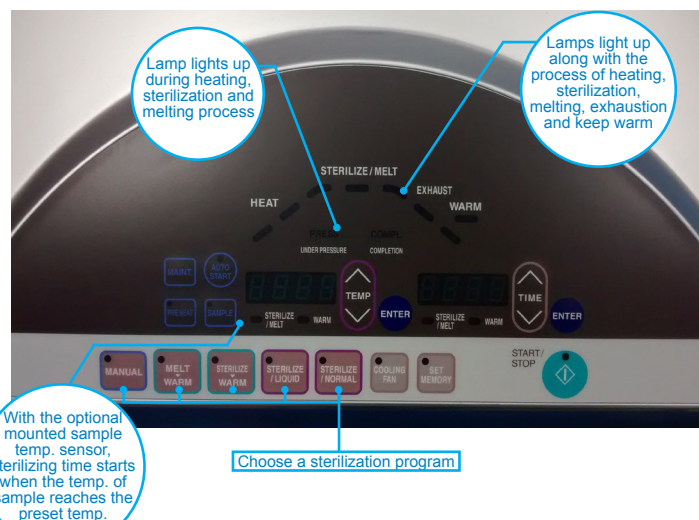- Self-diagnostic functions

■ 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 | 1000W 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 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 (WxDxHmm) | 520 x 660 x 881 | | 520 x 660 x 1161 |
| Internal dimensions of chamber | I.D.370 x D470 mm | | I.D.370 x D750 mm |
| Internal capacity | 50L | | 80L |
| Weight | ~95kg | | ~105kg |
| Power source | AC100~120V (24.5~20.5A) *no plug, round terminal* | AC200~240V (12.5~10.5A) *no plug, round terminal* | AC200~240V (12.5~10.5A) *no plug, round terminal* |
| Accessories | 2 pcs. stainless steel mesh basket (Φ344 x D200mm) | | 2 pcs. stainless steel mesh basket (Φ344 x D300mm) |
| | Vapor cup x 1, Drain bottle x 1, Drain board x 1, Chemical indicator 1 set (30 pieces), Filter x 1 | | |

## ■ Low Height Sterilizers

SQ500C(low height type)



Conventional Model

Model SQ500C

## ■ 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

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

### ● Stainless baskets

Mesh baskets



H060101048

Baskets with stacking fittings



241090

### ● Stainless buckets





H060103033

| Product code | Description |
|---|---|
| H060101048 | Mesh basket for SQ500C/510C (Φ344 x D200mm) |
| H060103033 | Mesh basket for SQ810C (Φ344 x D300mm) |
| 241090 | Mesh basket with 2 stacking fittings |
| 241097 | Mesh basket with 1 adjustable stainless steel perforated plate |
| 241152 | Stainless bucket |
| 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*