

# Autoclave (Laboratory Use)

## ST201/301/501/511

Operating temp. range 105~123°C ST201 105~128°C ST301/501/511

Internal capacity 20L ST201 32L ST301 47L ST501/511

### Fully automatic sterilization from start to finish with high pressure steam sterilization

- Automatic operations from air purge to sterilization with an interactive key input system
- Quick sample drying capability makes samples ready to use right after sterilization
- Drying temperature can be set according to sample material, quantity, etc.
- Timer range from 1~999 hours
- Drain bottle water level can be quickly confirmed on the front panel level indicator
- Drain valve located in front for easy access
- Absence of protrusions in sterilization chamber makes insertion & removal of baskets, and other items quick and easy
- Self-diagnostic functions make operation safer and error recovery quicker
- Condensation collector neutralizes high temperature exhaust steam safely



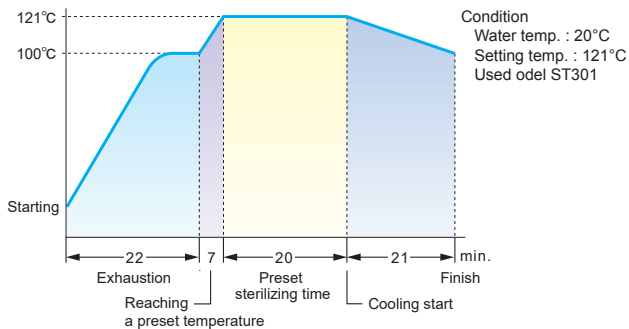
### Specifications

Model	ST201	ST301	ST501	ST511
System	Automatic high pressure steam sterilization			
Operating temperature (Sterilization)	105 to 123°C	105 to 128°C		
Maximum pressure capacity	0.18MPa	0.2MPa		
Interior material	Stainless steel			
Heater	1.3kW	1.7kW		2.0kW
Temp. controller	PID control by microprocessor			
Temp. display	Digital display by green LED and setting by ▲/▼ keys			
Timer / Timer resolution	1 min. ~ 99 hrs. and 59 min. 100~ 999 hrs. / 1 min. or 1 hr.			
Safety device	Self-diagnostic functions (Detection sensor error, SSR short circuit, Heater disconnect, Faulty main relay, Dry operation), Safety valve, Electric leakage breaker			
Internal dimensions (Dia×Depth)	240×445 mm	300×445 mm	300×665 mm	
External dimensions (W×D×H)	410×470×957 mm	440×530×968 mm	440×530×1088 mm	
Internal capacity	20L	32L	47L	
Power source (50/60Hz single phase)	AC115V / 220V	AC115V / 220V	AC115V, 16A	AC220V, 10A
Weight	Approx. 60kg	Approx. 75kg	Approx. 80kg	
Accessories	2 pcs. stainless steel mesh basket (Dia.209×D204mm), OSM-60 2 pcs. stainless steel mesh basket (Dia.266×D204mm), OSM-70 2 pcs. stainless steel mesh basket (Dia.266×D315mm), OSM-80 Drain board×1, Drain bottle×1, Condensation collection container with magnetic bracket×1			

Plug not included. Power cable is 2 meter (ST201) and 3 meter (ST301/501/511).

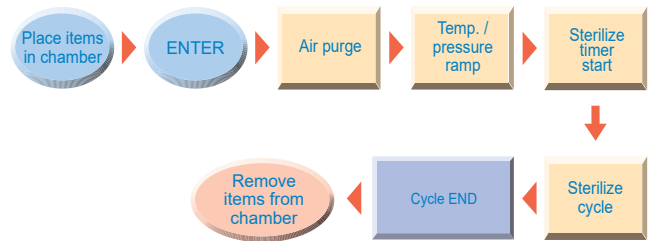
Performance based on 23±5°C room temp, 65%RH±20% damper fully closed and no load. Overall dimensions do not include protrusions.

## Outline of sterilization process



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

## Sterilization Process



## Front Door



- Drain bottle placed in front for easy level monitoring and access
- Drain valve also located in front for quick access and operation

## Included Items

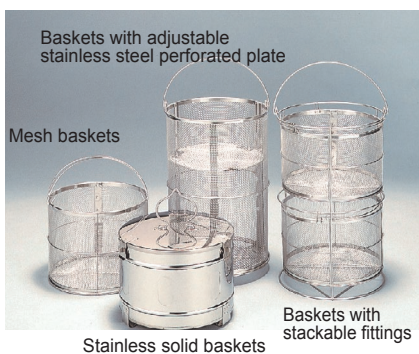


Mesh baskets



Condensation collector

## Optional Items



Product code	Model	Description	Dimension	Corresponding models
241087	OSM-60	Mesh basket Pitch 8.5mm	209x204mm	ST201
241088	OSM-70		266x204mm	ST301
241089	OSM-80		266x315mm	ST501 / 511
241085	OSQ-10	Mesh basket Pitch 2.5mm	190x159mm	ST201
241086	OSQ-20		250x201mm*	ST301 / 501 / 511
241093	OSQ-30	Mesh basket with stacking fittings	168x162mm with 2 fittings	ST201
241092	OSQ-40		246x162mm with 2 fittings	ST301
241091	OSQ-50		246x162mm with 3 fittings	ST501 / 511
241096	OSQ-60	Mesh basket with adjustable stainless steel perforated plate	200x390 with 1 plate	ST201
241095	OSQ-70		260x390 with 1 plate	ST301
241094	OSQ-80		200x590 with 2 plates	ST501 / 511
241083	OSR-10	Stainless solid basket	210x200	ST201
241084	OSR-20		270x200	ST301 / 501 / 511
241076	OSM-50	Interior temp. gauging sensor		

\*ST301 units accommodate 2 baskets. ST501/511 units accommodate up to 3 baskets.