

**LAB1ST**



# Steam Sterilizer



Labfirst Scientific Instruments (Shanghai) Co., Ltd.

# Content

Portable Pressure Steam Sterilizer, SP Series .....	1
Horizontal Steam Sterilizer, SH Series .....	2
Vertical Pressure Steam Sterilizer, SV-H Series .....	3
Vertical Pressure Steam Sterilizer, SV-M Series .....	4
Vertical Pressure Steam Sterilizer, SV-F Series .....	5
Vertical Pressure Steam Sterilizer, SV-X Series .....	6

# Configuration

Series	SP	SV-X	SV-F
Standard Features			
Model	SP25、SP30、SP35	SV45X、SV55X、SV75X	SV45F、SV60F、SV75F
Working volume	15L、19L、24L	38L、48L、67L	38L、53L、67L
Temperature and pressure range[50~126°C 1.42bar]	●	●	—
Temperature and pressure range[50~134°C 2.17bar]	—	—	●
Internal heating elements within the autoclave chamber	●	●	●
LCD display screen	—	●	●
LED display screen	●	—	—
Fully automatic microprocessor control	●	●	●
Stainless steel chamber	●	●	●
Flexible PT-100 temperature sensor	●	●	●
Interface check	—	—	—
Controller Function			
One-button sterilization function	●	●	●
Memory storage system	●	●	●
Automatic exhaust steam control	—	●	●
Integrated printer for batch documentation	—	○	○
Internal steam discharge treatment of equipment	—	●	●

Series	SV-M	SV-H	SH
Standard Features			
Model	SV45M、SV60M、SV75M	SV120H、SV160H、SV210H	SH240、SH375
Working volume	38L、53L、67L	108L、149L、196L	196L、296L
Temperature and pressure range[50~126°C 1.42bar]	—	—	—
Temperature and pressure range[50~134°C 2.17bar]	●	●	●
Internal heating elements within the autoclave chamber	●	●	●
LCD display screen	●	—	●
LED display screen	—	●	—
Fully automatic microprocessor control	●	●	●
Stainless steel chamber	●	●	●
Flexible PT-100 temperature sensor	●	●	●
Interface check	—	●	●
Controller Function			
One-button sterilization function	●	●	●
Memory storage system	●	●	●
Automatic exhaust steam control	○	○	○
Integrated printer for batch documentation	○	○	○
Internal steam discharge treatment of equipment	●	—	—

● = Standard   ○ = Optional   — = N/A

# Portable Pressure Steam Sterilizer

**SP25; SP30; SP35**

## Features

- LED display screen
- Available working volume: 15L, 19L, 24L
- Temperature and pressure range: [50~126°C 1.42bar]
- Memory storage system
- Safety: Electric interlock device / Over temperature protection / Over pressure protection / Burned & Leakage protection / Safety valve / Automatic fault detection
- Fully automatic microprocessor control; One-button sterilization function



Model	SP25	SP30	SP35
<b>System</b>			
Temperature range	50~126°C 50~80°C[preheating] / 50~60°C[insulation] / 65~100°C[dissolve] / 105~126°C[sterilization]		
Pressure range	0.142Mpa [1.42 bar]		
Cover Sealing Structure	Hand-wheel type rotary sealing structure		
External material	High temperature resistant engineering plastics		
Safety	Electric interlock device / Over temperature protection / Over pressure protection / Burned & Leakage protection / Safety valve / Automatic fault detection		
<b>Installation</b>			
External dimensions [mm]	443 × 630 × 440	422 × 825 × 480	422 × 835 × 480
[W×H×D] ["]	17.4 × 24.8 × 17.3	16.6 × 32.5 × 18.9	16.6 × 32.9 × 18.9
Required dimensions for Installation [mm]	650 × 1000 × 550	650 × 1300 × 600	650 × 1300 × 600
[W×H×D] ["]	25.6 × 39.4 × 21.7	25.6 × 51.2 × 23.6	25.6 × 51.2 × 23.6
Net weight [approx.] [Kg]	12	27	30
Conditions	Temperature and humidity 23°C±5°C, 65%RH±20% [no load]		
<b>Chamber</b>			
Interior material	Thickness 2mm stainless steel 304, mirror polished		
Design pressure	0.23Mpa [2.3bar]		
Total Dimensions and Working dimensions [mm]	280 × 395   270 × 260	280 × 495   270 × 330	280 × 585   270 × 420
["]	11.0 × 15.6   10.6 × 10.2	11.0 × 19.5   10.6 × 13.0	11.0 × 23.0   10.6 × 16.5
Total volume   Working volume [L]	24   15	30   19	36   24
<b>Controller</b>			
Temp. controller and display	LED display and fully automatic microprocessor control [Setting by ▲/▼ keys]		
Timer / Timer resolution	1min.~ 999min. and 1hrs. ~ 99hrs / 1 min. or 1h.		
Function	Preset program / memory storage system / Digital display screen		
<b>Electrical</b>			
Heating capacity[±10%]	2kW	2kW	2kW
Power source[50/60HZ single phase]	AC 220V [±22V]		
<b>Packing and shipping</b>			
Dimensions[W×H×D] [mm]	500 × 700 × 500	500 × 800 × 500	500 × 900 × 500
["]	19.7 × 27.6 × 19.7	19.7 × 31.5 × 19.7	19.7 × 35.4 × 19.7
Weight [approx.] [Kg]	16	29	32

# Horizontal Steam Sterilizer

## SH240; SH375

## Features

- LCD display screen
- Available working volume: 196L; 296L
- Fully automatic microprocessor control; One-button sterilization function
- Memory storage system
- Interface check
- Safety: Electric interlock device / Over temperature protection / Over pressure protection / Burned & Leakage protection / Safety valve / Automatic fault detection
- Optional automatic exhaust steam control
- Optional integrated printer for batch documentation



Model	SH240	SH375
<b>System</b>		
Temperature range	50~134°C 50~80°C[preheating] / 50~60°C[insulation] / 65~100°C[dissolve] / 105~134°C[sterilization]	
Pressure range	0.217Mpa [2.17bar]	
Cover Sealing Structure	Hand-wheel type rotary sealing structure	
External material	Stainless steel 304 with high temperature resistant engineering plastics	
Safety	Electric interlock device / Over temperature protection / Over pressure protection / Burned & Leakage protection / Safety valve / Automatic fault detection	
<b>Installation</b>		
External dimensions [mm]	720 × 1640 × 1550	820 × 1740 × 1550
[W×H×D]	[28.3 × 64.6 × 61.0]	[32.3 × 68.5 × 61.0]
Required dimensions for Installation [mm]	950 × 2100 × 2300	1050 × 2200 × 2400
[W×H×D]	[37.4 × 82.7 × 90.6]	[41.3 × 86.6 × 94.5]
Net weight [approx.] [Kg]	265	286
Conditions	Temperature and humidity 23°C±5°C, 65%RH±20% [no load]	
<b>Chamber</b>		
Interior material	Thickness 2mm stainless steel 304, mirror polished	
Design pressure	0.24Mpa [2.4bar]	
Total Dimensions and Working dimensions [mm]	520 × 1120   500 × 1000	620 × 1240   600 × 1050
[W×H×D]	[20.5 × 44.1   19.7 × 44.1]	[24.4 × 48.8   23.6 × 48.8]
Total volume   Working volume [L]	238   196	374   296
<b>Basket</b>		
Stainless steel mesh [mm]	[480×440] × 195 × [480×250] [1Pcs.]	[500×540] × 230 × [500×300] [1Pcs.]
basket [W1×D1]×H×[W2×D2]	[18.9×17.3] × 7.7 × [18.9×9.8] [1Pcs.]	[19.7×21.3] × 9.1 × [19.7×11.8] [1Pcs.]
Total volume [approx.] [L]	40	55
<b>Controller</b>		
Temp. controller and display	LED display and fully automatic microprocessor control [Setting by ▲/▼ keys]	
Temp.selection[sterilization]	121°C、126°C、134°C [Factory preset, not adjustable]	
Timer / Timer resolution	1min.~ 999min. and 1hrs. ~ 99hrs / 1 min. or 1h.	
Function	One-button sterilization function [121°C(30min)→126°C(15min)→134°C(4min)] / Memory storage system / Digital display screen Automatic exhaust steam control [Option] / Integrated printer for batch documentation [Option]	
<b>Electrical</b>		
Heating capacity	9kW [3kW × 3]	12kW [4kW × 3]
Power source[50/60HZ three phase]	AC 380V [±38V]	
<b>Packing and shipping</b>		
Dimensions [W×H×D] [mm]	830 × 1800 × 1640	930 × 1900 × 1640
[W×H×D]	[32.7 × 70.9 × 64.6]	[36.6 × 74.8 × 64.6]
Weight [approx.] [Kg]	300	335

# Vertical Pressure Steam Sterilizer

## SV120H; SV160H; SV210H

## Features

- LED display screen
- Available working volume: 108L; 149L; 196L
- Fully automatic microprocessor control; One-button sterilization function
- Memory storage system
- Interface check
- Safety: Electric interlock device / Over temperature protection / Over pressure protection / Burned & Leakage protection / Safety valve / Automatic fault detection
- Optional automatic exhaust steam control
- Optional integrated printer for batch documentation



Model	SV120H	SV160H	SV210H
<b>System</b>			
Temperature range	50~134°C 50~80°C[preheating] / 50~60°C[insulation] / 65~100°C[dissolve] / 105~134°C[sterilization]		
Pressure range	0.217Mpa [2.17bar]		
Cover Sealing Structure	Hand-wheel type rotary sealing structure		
External material	Stainless steel 304 with high temperature resistant engineering plastics		
Safety	Electric interlock device / Over temperature protection / Over pressure protection / Burned & Leakage protection / Safety valve / Automatic fault detection		
<b>Installation</b>			
External dimensions [mm]	650 × 1200 × 650	650 × 1400 × 650	650 × 1700 × 650
[W×H×D]	["] 25.6 × 47.2 × 25.6	["] 25.6 × 55.1 × 25.6	["] 25.6 × 66.9 × 25.6
Required dimensions for Installation [mm]	850 × 1500 × 850	850 × 1700 × 850	850 × 2000 × 850
[W×H×D]	["] 33.5 × 59.1 × 33.5	["] 33.5 × 66.9 × 33.5	["] 33.5 × 78.7 × 33.5
Net weight [approx.] [Kg]	160	175	183
Conditions	Temperature and humidity 23°C±5°C, 65%RH±20% [no load]		
<b>Chamber</b>			
Interior material	Thickness 2mm stainless steel 304, mirror polished		
Design pressure	0.24Mpa [2.4bar]		
Total Dimensions and [mm]	520 × 550   500 × 550	520 × 760   500 × 760	520 × 1000   500 × 1000
Working dimensions ["]	20.5 × 21.7   19.7 × 21.7	20.5 × 29.9   19.7 × 29.9	20.5 × 39.4   19.7 × 39.4
Total volume   Working volume [L]	117   108	161   149	212   196
<b>Basket</b>			
Stainless steel mesh [mm]	465 × 230 [2Pcs.]	465 × 230 [3Pcs.]	465 × 230 [3Pcs.]
basket [Dia. ×D] ["]	18.3 × 9.1 [2Pcs.]	18.3 × 9.1 [3Pcs.]	18.3 × 9.1 [3Pcs.]
Total volume [L]	78.1	117.1	117.1
<b>Controller</b>			
Temp. controller and display	LED display and fully automatic microprocessor control [Setting by ▲/▼ keys]		
Temp.selection[sterilization]	121°C, 126°C, 134°C [Factory preset, not adjustable]		
Timer / Timer resolution	1min.~ 999min. and 1hrs. ~ 99hrs / 1 min. or 1h.		
Function	One-button sterilization function [121°C(30min)→126°C(15min)→134°C(4min)] / Memory storage system / Digital display screen / Automatic exhaust steam control [Option] / Integrated printer for batch documentation [Option]		
<b>Electrical</b>			
Heating capacity	6kW	6kW	6kW
Power source[50/60HZ three phase]	AC 380V [±38V]		
<b>Packing and shipping</b>			
Dimensions [W×H×D] [mm]	760 × 1340 × 800	760 × 1530 × 800	760 × 1720 × 800
["]	29.9 × 52.8 × 31.5	29.9 × 60.2 × 31.5	29.9 × 67.7 × 31.5
Weight [approx.] [Kg]	187	200	217

# Vertical Pressure Steam Sterilizer

## SV45M; SV60M; SV75M

## Features

- LCD display screen
- Available working volume: 38L; 53L; 67L
- Fully automatic microprocessor control; One-button sterilization function
- Memory storage system
- Safety: Electric interlock device / Over temperature protection / Over pressure protection / Burned & Leakage protection / Safety valve / Automatic fault detection
- Internal steam discharge treatment of equipment
- Optional automatic exhaust steam control
- Optional integrated printer for batch documentation



Model	SV45M	SV60M	SV75M
<b>System</b>			
Temperature range	50~134°C 50~80°C[preheating] / 50~60°C[insulation] / 65~100°C[dissolve] / 105~134°C[sterilization]		
Pressure range	0.217Mpa [2.17bar]		
Cover Sealing Structure	Lever type multi-link synchronous telescopic structure		
External material	Stainless steel 304 with high temperature resistant engineering plastics		
Safety	Electric interlock device / Over temperature protection / Over pressure protection / Burned & Leakage protection / Safety valve / Automatic fault detection		
<b>Installation</b>			
External dimensions [mm]	570 × 1020 × 690	570 × 1020 × 690	570 × 1170 × 690
[W×H×D]	22.4 × 40.2 × 27.2	22.4 × 40.2 × 27.2	22.4 × 42.1 × 27.2
Required dimensions for Installation [mm]	800 × 1750 × 900	800 × 1750 × 900	800 × 1900 × 900
[W×H×D]	31.5 × 68.9 × 35.4	31.5 × 68.9 × 35.4	31.5 × 74.8 × 35.4
Net weight [approx.] [Kg]	85	91	102
Conditions	Temperature and humidity 23°C±5°C, 65%RH±20% [no load]		
<b>Chamber</b>			
Interior material	Thickness 2mm stainless steel 304, mirror polished		
Design pressure	0.24Mpa [2.4bar]		
Total Dimensions and Working dimensions [mm]	370 × 400   350 × 400	370 × 550   350 × 550	370 × 700   350 × 700
[W×H×D]	14.6 × 15.7   13.8 × 15.7	14.6 × 21.7   13.8 × 21.7	14.6 × 27.6   13.8 × 27.6
Total volume   Working volume [L]	43   38	59   53	75   67
<b>Basket</b>			
Stainless steel mesh [mm]	330 × 190 [1Pcs.]	330 × 190 [2Pcs.]	330 × 190 [1Pcs.] 330 × 360 [1Pcs.]
basket [Dia. ×D]	13.0 × 7.5 [1Pcs.]	13.0 × 7.5 [2Pcs.]	13.0 × 7.5 [1Pcs.] 13.0 × 14.2 [1Pcs.]
Total volume [L]	16.2	32.5	47.0
<b>Controller</b>			
Temp. controller and display	LCD display and fully automatic microprocessor control [Setting by ▲/▼ keys]		
Temp.selection[sterilization]	121°C、126°C、134°C [Factory preset, not adjustable]		
Timer / Timer resolution	1min.~ 999min. and 1hrs. ~ 99hrs / 1 min. or 1h.		
Function	One-button sterilization function [121°C(30min)→126°C(15min)→134°C(4min)] / Memory storage system / Digital display screen / Automatic exhaust steam control [Option] / Integrated printer for batch documentation [Option]		
<b>Electrical</b>			
Heating capacity	3.5kW	3.5kW	3.5kW
Power source [50/60HZ single phase]	AC 220V		
<b>Packing and shipping</b>			
Dimensions [W×H×D] [mm]	790 × 1160 × 670	790 × 1160 × 670	790 × 1320 × 670
[W×H×D]	31.1 × 45.7 × 26.4	31.1 × 45.7 × 26.4	31.1 × 52.0 × 26.4
Weight [approx.] [Kg]	92~95	98~100	106~109

# Vertical Pressure Steam Sterilizer

## SV45F; SV60F; SV75F

## Features

- LCD display screen
- Available working volume: 38L, 53L, 67L
- Fully automatic microprocessor control; One-button sterilization function
- Memory storage system
- Automatic exhaust steam control
- Safety: Electric interlock device / Over temperature protection / Over pressure protection / Burned & Leakage protection / Safety valve / Automatic fault detection
- Internal steam discharge treatment of equipment
- Optional integrated printer for batch documentation



Model	SV45F	SV60F	SV75F
<b>System</b>			
Temperature range	50~134°C 50~80°C[preheating] / 50~60°C[insulation] / 65~100°C[dissolve] / 105~134°C[sterilization]		
Pressure range	0.217Mpa [2.17bar]		
Cover Sealing Structure	Lever type multi-link synchronous telescopic structure		
External material	Stainless steel 304 with high temperature resistant engineering plastics		
Safety	Electric interlock device / Over temperature protection / Over pressure protection / Burned & Leakage protection / Safety valve / Automatic fault detection		
<b>Installation</b>			
External dimensions [mm]	550 × 1070 × 620	550 × 1070 × 620	550 × 1190 × 620
[W×H×D] ["]	21.7 × 42.1 × 24.4	21.7 × 42.1 × 24.4	21.7 × 46.9 × 24.4
Required dimensions for Installation [mm]	750 × 1750 × 850	750 × 1750 × 850	750 × 1850 × 850
[W×H×D] ["]	29.5 × 68.9 × 33.5	29.5 × 68.9 × 33.5	29.5 × 72.8 × 33.5
Net weight [approx.] [Kg]	90	95	105
Conditions	Temperature and humidity 23°C±5°C, 65%RH±20% [no load]		
<b>Chamber</b>			
Interior material	Thickness 2mm stainless steel 304, mirror polished		
Design pressure	0.24Mpa [2.4bar]		
Total Dimensions and [mm]	370 × 400   350 × 400	370 × 550   350 × 550	370 × 700   350 × 700
Working dimensions ["]	14.6 × 15.7   13.8 × 15.7	14.6 × 21.7   13.8 × 21.7	14.6 × 27.6   13.8 × 27.6
Total volume   Working volume [L]	43   38	59   53	75   67
<b>Basket</b>			
Stainless steel mesh [mm]	330 × 190 [1Pcs.]	330 × 190 [2Pcs.]	330 × 190 [1Pcs.] 330 × 360 [1Pcs.]
basket [Dia. ×D] ["]	13.0 × 7.5 [1Pcs.]	13.0 × 7.5 [2Pcs.]	13.0 × 7.5 [1Pcs.] 13.0 × 14.2 [1Pcs.]
Total volume [L]	16.2	32.5	47.0
<b>Controller</b>			
Temp. controller and display	LCD display and fully automatic microprocessor control [Setting by ▲/▼ keys]		
Temp.selection[sterilization]	121°C、126°C、134°C [Factory preset, not adjustable]		
Timer / Timer resolution	1min.~ 999min. and 1hrs. ~ 99hrs / 1 min. or 1h.		
Function	One-button sterilization function [121°C(30min)→126°C(15min)→134°C(4min)] / Memory storage system / Digital display screen / Automatic exhaust steam control / Integrated printer for batch documentation [Option]		
<b>Electrical</b>			
Heating capacity	3.5kW	3.5kW	3.5kW
Power source [50/60HZ single phase]	AC 220V [±22V]		
<b>Packing and shipping</b>			
Dimensions [W×H×D] [mm]	790 × 1160 × 670	790 × 1160 × 670	790 × 1320 × 670
["]	31.1 × 15.7 × 26.4	31.1 × 15.7 × 26.4	31.1 × 52.0 × 26.4
Weight [approx.] [Kg]	94	98	110

# Vertical Pressure Steam Sterilizer

## SV45X; SV55X; SV75X

## Features

- LCD display screen
- Available working volume: 38L; 48L; 67L
- Temperature and pressure range: [50~126°C 1.42bar]
- Fully automatic microprocessor control; One-button sterilization function
- Memory storage system
- Automatic exhaust steam control
- Safety: Electric interlock device / Over temperature protection / Over pressure protection / Burned & Leakage protection / Safety valve / Automatic fault detection
- Internal steam discharge treatment of equipment
- Optional integrated printer for batch documentation



Model	SV45X	SV55X	SV75X
<b>System</b>			
Temperature range	50~126°C 50~80°C[preheating] / 50~60°C[insulation] / 65~100°C[dissolve] / 105~126°C[sterilization]		
Pressure range	0.142Mpa [1.42 bar]		
Cover Sealing Structure	Hand-wheel type rotary sealing structure		
External material	Stainless steel 304 with high temperature resistant engineering plastics		
Safety	Electric interlock device / Over temperature protection / Over pressure protection / Burned & Leakage protection / Safety valve / Automatic fault detection		
<b>Installation</b>			
External dimensions [mm]	570 × 1240 × 670	570 × 1240 × 670	570 × 1340 × 670
[W×H×D]	[22.4 × 48.8 × 26.4]	[22.4 × 48.8 × 26.4]	[22.4 × 52.8 × 26.4]
Required dimensions for Installation [mm]	750 × 1650 × 850	750 × 1650 × 850	750 × 1650 × 850
[W×H×D]	[29.5 × 65.0 × 33.5]	[29.5 × 65.0 × 33.5]	[29.5 × 65.0 × 33.5]
Net weight [approx.] [Kg]	88	90	95
Conditions	Temperature and humidity 23°C±5°C, 65%RH±20% [no load]		
<b>Chamber</b>			
Interior material	Thickness 2mm stainless steel 304, mirror polished		
Design pressure	0.23Mpa [2.3bar]		
Total dimensions and [mm]	370 × 400   350 × 400	370 × 500   350 × 500	370 × 700   350 × 700
Working dimensions ["]	14.6 × 15.7   13.8 × 15.7	14.6 × 19.7   13.8 × 19.7	14.6 × 27.6   13.8 × 27.6
Total volume   Working volume [L]	43   38	54   48	75   67
<b>Basket</b>			
Stainless steel mesh [mm]	330 × 190 [1Pcs.]	330 × 190 [2Pcs.]	330 × 190 [3Pcs.]
basket [Dia. ×D] ["]	13.0 × 7.5 [1Pcs.]	13.0 × 7.5 [2Pcs.]	13.0 × 7.5 [3Pcs.]
Total volume [L]	16.2	32.5	48.7
<b>Controller</b>			
Temp. controller and display	LCD display and fully automatic microprocessor control [Setting by ▲/▼ keys]		
Temp.selection[sterilization]	121°C、126°C [Factory preset, not adjustable]		
Timer / Timer resolution	1min.~ 999min. and 1hrs. ~ 99hrs / 1 min. or 1h.		
Function	One-button sterilization function [121°C[30min]→126°C[15min]] / Memory storage system / Digital display screen / Automatic exhaust steam control / Integrated printer for batch documentation [Option]		
<b>Electrical</b>			
Heating capacity	3.5kW	3.5kW	3.5kW
Power source[50/60HZ single phase]	AC 220V [±22V]		
<b>Packing and shipping</b>			
Dimensions [W×H×D] [mm]	810 × 1260 × 670	810 × 1260 × 670	810 × 1410 × 670
["]	31.9 × 49.6 × 26.4	31.9 × 49.6 × 26.4	31.9 × 55.5 × 26.4
Weight [approx.] [Kg]	93	96	101