

Hiclave Vertical Autoclaves



HV Series



The Most Advanced Autoclaves with Unique Features

- Electromechanical lock system
- Dual-sensing interlock mechanism
- Double-sensing system for air evacuation
- Programmable auto start
- Process status display
- Process mode for agar

Retrofittable accessories (Any combination possible)

A : Forced cooling unit

F : Floating sensor

P : Digital printer

W : Automatic water supply

Z : All combined (A + F + P + W)

Model	HV-25	HV-50	HV-85	HV-110
Effective capacity	25 liter	50 liter	85 liter	110 liter
Chamber size(mm)	240f X 550D	300f X 710D	420f X 615D	420f X 795D
Outer Dimensions (W x H x Dmm)	480 X 950 X 460	510 X 1040 X 530	660 X 1000 X 650	660 X 1180 X 650
Max. Steril. Temp	126°C	135°C	135°C	135°C
Process Mode	4 - Modes	4 - Modes	4 - Modes	4 - Modes
Net weight	41 kg	57 kg	71 kg	81 kg

HVE - 50



New and Economic Autoclave based on Unique Features

- Electromechanical lock system
- Dual-sensing interlock mechanism
- Pulse Exhaust System
- Memory function (Program your own)
- Space-saving design
- Process status display

Effective Capacity	Chamber size(mm)	Outer dimensions (W×H×D)	Max.Steril.temp	Process mode	Net weight
50 liter	300f X 710	510 X 1040 X 530	135°C	3 - Modes	57 kg



ES-315



ES-215

→ [Accessories here](#)

Reliable & Speedy Sterilization

A top-open lid, which can be operated easily with a single hand or foot, is provided with the SX autoclaves. To open the lid, the lid lock is released by stepping on the foot pedal located at the bottom while pressing the lid down. The lid can be opened with minimal effort owing to mechanical assistance. In addition, the lid can be closed easily just by pressing it down.

User-friendly Memory Function

Once turned on the system automatically sets and displays a pre-set value. Operation is done simply by pressing the start switch. ES-315/ES-215 enables the set temperature and time for each mode program to be stored in its memory.

Specifications

Model		ES-215	ES-315
Operating temperature range (during sterilizing)		105 - 123°C	105 - 132°C
Operating pressure range		0 - 127kPa	0 - 186kPa
Maximum operating pressure		147kPa	216kPa
Temperature control		Digital, microprocessor controlled	
Temperature display / display range		Digital / - 15 - 180°C	
Pressure display / display range		Analog / 0 - 250kPa	Analog / 0 - 400kPa
Heat source		1.5kW electric heater	2.0kW electric heater
Timer control		Digital, microprocessor controlled	
Timer display		Digital	
Timer display range	Sterilizing mode:	1 - 240min. or continuous	
	Sterilizing-warming mode:	1 - 240min. (sterilizing) / 1 - 8hours (warming)	
	Heating mode:	1 - 8hours	
Start-timer setting range		1 - 99hours in each operation mode	
Memory function		A set of temperature and time setting in each operation mode	
Safety devices		<ul style="list-style-type: none"> • Inside the chamber overheat prevention, • Outer wall of the chamber overheat prevention, • Overpressure prevention, • Temperature sensor disconnection prevention, • Empty heating prevention, • Leakage breaker, • Safety valve 	
Malfunction prevention devices		<ul style="list-style-type: none"> • Low water level detection, • Exhaust valve knob open/close detection, • Insufficient sterilization detection, • Chamber lid open/close detection 	
Leakage breaker	Rated breaking current:	20A (120V) , 15A (220 / 230 / 240V)	30A (120V) , 15A (220 / 230 / 240V)
	Rated sensed current:	30mA (120V) , 10mA (220 / 230 / 240V)	
Protection type		Class 1 equipment	
Operating environment	Ambient temperature:	5 - 35°C	
	Relative humidity:	30 - 85%	
	Atmospheric pressure:	700 - 1060hPa	
	Gradient:	Within 2°	
Dimensions		φ248 x 543mm	φ325 x 740mm
Usable dimension		φ236 x 450mm	φ312 x 635mm
Capacity of chamber		22ℓ	53ℓ
Chamber material		SUS304	
Capacity / material of exhasut bottle		3ℓ / polyethylene	
Type / material of lid gasket		Accommodating internal pressure / silicone rubber	
Dimensions of main unit (mm)		400W x 460D x 920H (Height from floor to control panel:705)	490W x 560D x 1090H (Height from floor to control panel:875)
Net weight		50kg	80kg
Rated Voltage		AC 120 / 220 / 230 / 240V	
Power input		15A (120V), 7A (220 / 230 / 240V)	20A (120V), 10A (220V), 9A (230 / 240V)
Power supply requirements		Single-phase 120V AC (50 / 60Hz) 15A or above	Single-phase 120V AC (50 / 60Hz) 20A or above
		Single-phase 220 / 230 / 240V AC (50 / 60Hz) 15A or above	
Power Comsumption (calorific value)		1.5kW (1290kcal/h)	2kW (1720kcal/h)

Autoclaves SX series LineUP



SX-300



SX-500



SX-700

CE 0036



SX-300E



SX-500E



SX-700E

→ [Accessories here](#)

Speedy Autoclaves

Maximized chamber capacity at Minimum installation space

Easy operation using the "Top-open lid"

SX Specifications

Model name		SX-300	SX-500	SX-700
Operating temperature range	Sterilizing	105 ~ 135°C(0.019 ~ 0.212MPa)		
	Heating	45 ~ 104°C(0 ~ 0.015MPa)		
	Warming	45 ~ 95°C		
Maximum operating pressure		0.263MPa		0.25MPa
Temperature	Display	Digital		
Pressure gauge	Display	Analog		
	Display range	0 ~ 0.4MPa		
Heat source		1.5kW electric heater	2kW electric heater	3kW electric heater
Safety device		<ul style="list-style-type: none"> • Water level sensor, • Current leakage breaker, • Lid interlock, • Over-heat prevention, • Over-pressure prevention, • Open temperature sensor detection, • Safety valve 		
Time	Display	Digital		
	Display range	Sterilizing	0:00 - 9:59, 0 - 99hours, 0 - 999min.(0:00 - 9:59,10 - 99hours changeable)	
		Warming	Variable: 0 - 99hours	
Chamber dimensions		φ325 x 553mm	φ325 x 733mm	φ370 x 774mm
Chamber capacity		Effective internal volume:36L, Internal volume:44L	Effective internal volume:50L, Internal volume:58L	Effective internal volume:69L, Internal volume:79L
Chamber material		SUS304		
Dimensions (mm)		410W x 477D x 790Hmm (With protruding:574D)	410W x 477D x 970Hmm (With protruding:574D)	470W x 528D x 1003Hmm (With protruding:625D)
Weight		50kg	60kg	72kg
Rated voltage		120V AC		-
		230V AC		
Power input		13A/120V	17A/120V	-
		7A/230V	9A/230V	13A/230V
Required power supply		Single-phase 120V AC (50/60 Hz)15A or more	Single-phase 120V AC (50/60 Hz)20A or more	-
		Single-phase 230V AC (50/60 Hz)10A or more	Single-phase 230V AC (50/60 Hz)15A or more	Single-phase 230V AC (50/60 Hz)15 A or more
Power consumption (calorific value)		1.5kW (1290kcal/h)	2.0kW (1720cal/h)	3.0kW (2580cal/h)
Environmental Conditions		<p>When operating the autoclave, observe the environmental conditions given below.</p> <p>Ambient temperature: 10 to 35°C</p> <p>Atmospheric pressure: 860 to 1060hPa</p> <p>Relative humidity: 30 to 85%</p> <p>Maximum gradient: 2</p>		
Accessories		Stainless baskets 1 (φ300 x 182mm)	Stainless baskets 2 (φ300 x 182mm)	Stainless baskets 2 (φ345 x 181mm)

Model name	SX-300	SX-500	SX-700
	<ul style="list-style-type: none"> • Chamber bottom Plate 1, • Caster stoppers 4, • Operator's Manual 1, • Clear folder (for storing the operation manual) 1, • Screw (for attaching the clear folder) 1, • Warranty card 1, • Customer card 1, • Inspection Sheet 1 		

SX-E Specifications

Model name		SX-300E	SX-500E	SX-700E
Operating temperature range	Sterilizing	105 ~ 135°C (0.019 ~ 0.212MPa)		
	Heating	45 ~ 104°C (0 ~ 0.015MPa)		
	Warming	45 ~ 95°C		
Maximum operating pressure		0.263MPa		0.25MPa
Temperature	Display	Digital		
Pressure gauge	Display	Analog		
	Display range	0 - 0.4MPa		
Heat source		1.5kW electric heater	2.0kW electric heater	3.0kW electric heater
Safety device		<ul style="list-style-type: none"> • Water level sensor, • Leakage breaker, • Lid interlock, • Over-heat prevention, • Over-pressure prevention, • Temperature sensor break detection, • Safety valve 		
Protection type against electrical shock		Class I equipment		
Time	Display	Digital		
	Display range	Sterilizing	0:00 - 9:59, 0 - 99hours, 0 - 999min.(0:00 - 9:59,10 - 99hours changeable)	
		Heating		
		Warming		
Pressure chamber type		PED Category II		
Chamber dimensions		φ325 x 553mm	φ325 x 733mm	φ370 x 774mm
Chamber capacity		Effective internal volume:36L, Internal volume:44L	Effective internal volume:50L, Internal volume:58L	Effective internal volume:69L, Internal volume:79L
Chamber material		SUS304		
Dimensions (mm)		410W x 477D x 790Hmm (With projection:574D)	410W x 477D x 970Hmm (With projection:574D)	470W x 528D x 1003Hmm (With projection:625D)
Weight		50kg	60kg	72kg
Rated voltage		230V AC		
Power input		7A	9A	13A
Required power supply		Single-phase 230V AC (50/60 Hz)10 A or more	Single-phase 230V AC (50/60 Hz)15 A or more	Single-phase 230V AC (50/60 Hz)15 A or more
Power consumption (calorific value)		1.5kW(1290kcal/h)	2.0kW(1720kcal/h)	3.0kW(2580kcal/h)
Environmental Conditions		<p>When operating the autoclave, observe the environmental conditions given below.</p> <p>Ambient temperature: 10 to 35°C Atmospheric pressure: 860 to 1060hPa Relative humidity: 30 to 85% Maximum gradient: 2</p>		
Accessories		Stainless baskets 1 (φ300×182 mm)	Stainless baskets 2 (φ300×182 mm)	Stainless baskets 2 (φ345×181 mm)
		<ul style="list-style-type: none"> • Caster stopper 4, • Chamber bottom Plate 1, • Operator's Manual 1, • Clear Plastic Accessory Case 1, • Attachment Screw for Clear Plastic Accessory Case 1, • Inspection Sheet 1, • Warranty card 1, • Customer card 1 		

*Please refer to the「EC Declaration of Conformity」for detailed standard application.

* Specifications and design are subject to change for improvement without prior notice. Please ask for the latest specifications prior to your order and procurement.