

# VERTICAL AUTOCLAVE

## Vertical Autoclave LVA-100 Series



Labocon Vertical Autoclave LVA-100 Series is designed to provide high quality repeatable performance and accountability for a wide range of applications used in modern laboratories. It is ideal for sterilization of Lab equipment, dressings, glasswares, culture medium, etc.

### Features: For LVA-101 to LVA-104

- Exterior, interior and baskets made of SS-304/SS316 Stainless Steel, Construction resistant to acid, alkali and corrosion
- Digital display shows working status, with touch of key
- Manual or semi-automatic control
- Pressure and water level control
- Accident protection system
  - Automatically switches off of heating elements at low water level
  - Inhibits lid opening during the working cycle
  - Heat protection sensor
- Auto discharges the cool air, and the steam discharges automatically after sterilization process is complete.
- Over temperature, over pressure auto-protection & protection against water lacking.
- Automatically shuts off with a beep reminding of the completion of the sterilization cycle.
- Standard Accessory: Three stainless steel sterilizing baskets
- Possible to install drying system in the instrument (Optional).



### Features for LVA-105 & 106 models

- Double scale indication pressure gauge
- Indicator light indicates working state
- Automatically switch off with beep reminder after sterilization
- Standard Accessory: Two stainless steel sterilizing baskets Exhaust below the structure, which is convenient to exhaust the cold air

### Application:

Labocon Vertical Autoclave is applicable in bacteriological and research laboratories, medical and health work, scientific and agricultural institutes.

### Specification:

Model	LVA-101	LVA-102	LVA-103	LVA-104	LVA-105	LVA-106
Capacity	35 L	50 L	75 L	100 L	120 L	150 L
Sterilization Temp.	120℃ ~ 134℃				120℃ ~ 134℃	
Working Pressure	0.22 ~ 0.23 MPa				0.22 ~ 0.23 MPa	
Sterilization Time	0-99 h 59 min					
Chamber Dimension (mm)	318×450	340×550	400×600	440×650	480×660	510×740
Overall Dimension (mm)	480×460×850	520×450×980	560×560×980	590×590×1080	600×640×1140	670×690×1130
Power	2500W	3000W	4500W		6000W	
Power Supply	318×450 AC 220 V ~ 50 Hz					
Gross Weight/ Net Weight	72/56 Kg	88/68 Kg	100/80 Kg	110/85 Kg	125/100 Kg	135/110 Kg

## Vertical Autoclave LVA-200 Series



Labocon Vertical Autoclave LVA-200 Series is designed to provide high quality repeatable performance and accountability for a wide range of applications used in modern laboratories. It is ideal for sterilization of Lab equipment, dressings, glassware, culture medium, etc.

### Features:

- The instrument is made of SUS304/SS 316 fully stainless steel structure both inner and outer Construction
- Hand wheel type of quick-open door system
- Equipped with Door safety lock system
- Microprocessor controller system
- Digital display of working status, touch of key
- Over temperature & over pressure auto-protection
- Protection against low water level
- Self-inflating type of seal
- Automatically shuts off with a beep reminding of the completion of the sterilization cycle
- It has a Steam-water inner circulation system wherein no steam discharge occurs and the environment remains clean and dry
- Standard Accessory: Two stainless steel sterilization baskets
- It is possible to install drying system in the instrument (Optional)



### Application:

Labocon Vertical Autoclave is suitable in bacteriological and research laboratories, medical, clinical and pharmaceutical units, hospitals, pathological laboratories, R & D laboratories, etc.

### Specification:

Model	LVA-201	LVA-202	LVA-203	LVA-204
Capacity	35 L	50 L	75 L	100 L
Sterilization Temp.	134℃			
Working Pressure	0.22 ~ 0.23 MPa			
Sterilization Time	0-99 h 59 min			
Chamber Dimension (mm)	318×450	340×550	400×600	440×650
Overall Dimension (mm)	600×410×1030	650×410×1140	690×470×1140	730×510×1270
Power	2500W	3000W	45000W	
Power Supply	AC 220 V ~ 50Hz			
Gross Weight/ Net Weight	96/77 Kg	102/83 Kg	120/98 Kg	135/110 Kg

## Vertical Autoclave LVA-300 Series



Labocon Vertical Autoclave LVA-300 Series is ergonomically designed to meet the sterilization procedures in a laboratory based environment. It offers excellent temperature stability and is equipped with microprocessor based digital PID controller.

### Features:

- SS-304/SS316 Construction : Inner and outer as per requirement
- Unique anti-scald designed sterilization chamber to avoid corrosion
- Multi-layered pressure protection system
- Five sterilization modes for drying and warming of solids, semi-solids and liquids
- Microcomputer control system
- Simple and easy to understand control panel
- Automatic checking of locking condition of cover
- Automatic sterilization according to preset time
- Fully automatic internal discharge control embedded with a steam trapping bottle
- Safety device: Self-induction pressure interlocking device, over temperature protection system, dry scorch protection system, overpressure protection, safety valve, over current and short circuit protection, cover inspection system, leakage protection device, anti-scald safety protection and automatic trouble shooting system
- Optional: Stainless steel basket



### Application:

Labocon Vertical Autoclave is suitable in bacteriological and research laboratories, medical, clinical and pharmaceutical units, hospitals, pathological laboratories, R & D laboratories, etc.

## Vertical Autoclave LVA-300 Series



### Specification:

Model Features	LVA-301-A	LVA-302-A	LVA-303-A	LVA-304-A
	LVA-301-B	LVA-302-B	LVA-303-B	LVA-304-B
Capacity	36 L	54 L	80 L	100 L
Sterilization Temp.	105-135°C			
Working Temp.	5°C-138°C			
Humidity Range	10%-85% RH			
Pressure	0-0.6MPa			
Chamber Dimension	320×530 mm	320×730 mm	400×700 mm	400×800 mm
Overall Dimension	460x542x1070 mm	460x542x1070 mm	620x680x1040 mm	620x680x1140 mm
Power	2300 W	2900 W	4600 W	4600 W
Power Supply	220V 50Hz/60Hz			
Catalog No.	9522139601A/B/C	9522140601A/B/C	9522141601A/B/C	9522142601A/B/C

## Function Table

Features		Model	LVA-301-A	LVA-301-B
			LVA-302-A	LVA-302-B
			LVA-303-A	LVA-303-B
			LVA-304-A	LVA-304-B
Sterilization mode	Solid mode: Heating-Sterilization -Exhausting		Yes	Yes
	Solid with drying mode: Heating- Sterilization- Exhausting-Water drainage-Drying		Yes	No
	Liquid mode: Heating-Sterilizing -Precooling- Exhausting		Yes	Yes
	Liquid with warming mode: Heating-Sterilizing- Precooling- Exhausting-Warming		Yes	Yes
	Agar mode: Heating-Melting- Warming		Yes	Yes
Preset range of exhausting temperature			73-104°C	73-104°C
Preset range of drying time			1-300min	No
Status flow chart that displays work processes			Yes	Yes
Timed start up			0min-6days delayed	0min-6days delayed
Procedures created			60	60



## Vertical Autoclave LVA-400 Series



Labocon features Vertical Autoclave LVA-400 Series is ergonomically designed to provide high quality reliable performance for a wide range of applications in laboratories. It helps in sterilization procedures in a laboratory based environment, which has its unique requirements.

### Features:

- Tripled walled Stainless steel chamber material SS304/SS316 Grade.
- Resin coated insulation of chamber cover and bench to avoid hand burns
- Rounded corners avoid collisions and injuries
- Six sterilization modes for drying and warming of solids, semi-solids and liquids
- Waste sterilization mode and drying function
- Temperature and pressure calibration interface with Pressure Gauge : 4.05 kg/cm<sup>2</sup>
- Microcomputer control system, Simple and easy to understand control panel.
- Platinum 100/1000 sensor with resistance of 100  $\Omega$  at 0°C
- Automatic monitoring of the discharge conditions of cold air
- Convenience of frequent water feeding
- Automatic opening of the vent valve to discharge steam on completion of sterilization procedure
- Automatic sterilization according to preset time
- Fully automatic internal discharge control embedded with a steam trapping bottle
- Safety function: "Eight-column evenly distributed" Electronic interlocking & sensing device, electric double inner locks, dry scorch protection, overpressure protection, safety valve, over temperature protection, over current and short circuit protection, leakage protection, cooling lock, anti-scald chamber cover and bench, automatic troubleshooting
- Optional:
  - \* Stainless steel basket
  - \* Drainage hose
  - \* Water plate
  - \* Exhaust bottle
  - \* Stainless steel pail
  - \* Cooling fan
  - \* Thermometer

### Application:

Labocon Vertical Autoclave is applicable in bacteriological and research laboratories, medical and health work, scientific and agricultural institutes.

## Vertical Autoclave LVA-400 Series



### Specification:

Model     Features	LVA-401-A	LVA-402-A	LVA-403-A
	LVA-401-B	LVA-402-B	LVA-403-B
	LVA-401-C	LVA-402-C	LVA-403-C
Capacity	60 L	85 L	110 L
Sterilization Temp.	105-138°C Temperature accuracy : 0.1°C at 121°C		
Sterilization Time	1-300min		
Humidity Range	10-85%		
Pressure	0-0.6 MPa		
Chamber Dimension	400x505 mm	400x700 mm	400x895 mm
Overall Dimension	660x644x980 mm		660x644x1180 mm
Power	2900 W	5100 W	
Power Supply	220V 50/60Hz		
Catalog No.	9522143601A/B/C	9522144601A/B/C	9522145601A/B/C



## Function Table

Features		Model	LVA-401-A	LVA-401-B	LVA-401-C
			LVA-402-A	LVA-402-B	LVA-402-C
			LVA-403-A	LVA-403-B	LVA-403-C
Sterilization mode	Solid mode: Heating-Sterilizing- Exhausting and air cooling		Yes	Yes	Yes
	Solid with drying mode: Heating-Sterilizing- Exhausting and air cooling-water drainag e-drying		Yes	No	No
	Liquid mode: Heating-sterilizing- Precooling-Steam exhausting		Yes	Yes	Yes
	Biohazard Mode: Heating-Sterilizing- Steam exhausting and air cooling		Yes	Yes	Yes
	Biohazard Mode: Heating-Sterilizing- Steam exhausting and air cooling		Yes	Yes	Yes
	Agar Mode: Heating-Melting- Warming		Yes	Yes	Yes
Automatic water feeding			STANDARD	STANDARD	No
Water level sensor			STANDARD	STANDARD	No
Cooling fan			STANDARD	STANDARD	OPTIONAL
Load thermometer			STANDARD	STANDARD	OPTIONAL
Printer			STANDARD	STANDARD	OPTIONAL
Memory system			Create 60 procedures	Create 60 procedures	Create 20 procedures