

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°C ~ 134°C | | | | 120°C ~ 134°C | |
| 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°C | | | |
| 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 | LVA-301-A | LVA-302-A | LVA-303-A | LVA-304-A |
|---------------------|-----------------|-----------------|-----------------|-----------------|
| Features | 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 |

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/cm²
- Microcomputer control system, Simple and easy to understand control panel.
- Platinum 100/1000 sensor with resistance of 100 Ω 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 | 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 | |