LORDERAN

COMPACT · POWERFUL · RELIABLE

Vertical Steam Sterilizer Autoclave

Bolt-structure lid with automatic exhaust. Full SUS 304 stainless steel, 35 L to 150 L.



116 – 134 °C
TEMPERATURE SETTING

33 psi
WORKING PRESSURE

35 – 150 L
FOUR CAPACITIES

1 Year
WARRANTY

Models: 35B · 50B · 100B · 150B

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PRODUCT OVERVIEW

Fully automatic steam sterilization, built to last

The LORDERAN Vertical Steam Sterilizer is a laboratory autoclave with a traditional bolt-structure lid and automatic exhaust. Set the sterilization temperature and duration, and the unit runs fully automatically — with automatic shut-off and an audible beep when the cycle ends. It is suited to laboratory steam sterilization, sterilizing liquids in sealed exhaust mode, mushroom autoclave use, sterilizing grain spawn, and pasteurization with adjustable temperature.

134 °C	≤ 0.5 °C	4–999 min	SUS 304
MAX. TEMPERATURE	HEAT UNIFORMITY	STERILIZATION TIMER	FULL STAINLESS STEEL

How a cycle works

1. **Load** — Samples in stainless baskets
2. **Set** — Temperature and time
3. **Sterilize** — Fully automatic run
4. **Exhaust** — Automatic, or sealed for liquids
5. **Finish** — Auto shut-off with beep

Four sizes, drawn to scale



35 L	50 L	100 L	150 L
Ø300 × 450	Ø350 × 515	Ø450 × 620	Ø500 × 747

Inner chamber, ø × height in mm. Schematic illustration.

Design

- Small footprint, large load capacity
- Bolt-structure lid rated up to 134 °C
- LED display and easy setting
- Built-in cooling fan and voltage regulator

Operation

- Digital display of working status
- One-button exhaust mode selection
- Reaches pressure in about 25 minutes (as stated)
- Plug & play installation

SAFETY & PERFORMANCE

Protection at every stage

Comprehensive protection

Over-temperature protection; over-pressure self-venting protection; low-water-level protection; dry-run (anti-dry-burning) protection; water run-out protection; safety valve; leakage breaker.

Safety door-opening mechanism

The bolt-structure lid is fitted with a safety door-opening mechanism, backed by the safety valve and over-pressure self-venting protection.

Two exhaust modes — one button

Automatic exhaust for solid loads, or **sealed (non-vent) mode** for liquids to prevent boil-over. Select with a single button.

Heating elements with individual alarms

An independent audible and visual alarm for each heating element makes troubleshooting and replacement straightforward. Parts are easy to replace.

Accurate temperature sensing

Flexible PT-100 sensor; temperature setting range 116–134 °C (240.8–273 °F) with heat uniformity ≤ 0.5 °C and a sterilization timer from 4 to 999 minutes.

Durable and quality-assured

Full SUS 304 stainless-steel construction. The manufacturer states the unit is built to meet or exceed industry standards (for example EN 285 or ASME).

Why the 150 L is supplied at 220–240 V only

At 6 kW, the 150 L model needs a high-current supply. On single-phase 110/120 V this would call for very heavy breakers and thick wiring, so the 150 L is offered for 220–240 V single-phase power, the common laboratory standard. The 35 L, 50 L and 100 L models are available in 220 V and 110 V versions.

SPECIFICATIONS

Technical specifications

Specification	35 L 35B	50 L 50B	100 L 100B	150 L 150B
MODEL & SIZE				
SKU	35B	50B	100B	150B
Inner chamber (ø × H)	**ø300 × 450 mm**	**ø350 × 515 mm**	**ø450 × 620 mm**	**ø500 × 747 mm**
Overall dimensions (W × D × H)	**436 × 473 × 850 mm**	**544 × 536 × 985 mm**	**617 × 627 × 1135 mm**	**660 × 676 × 1255 mm**
Packing dimensions (W × D × H)	**550 × 500 × 900 mm**	**580 × 630 × 1100 mm**	**690 × 650 × 1230 mm**	**750 × 700 × 1370 mm**
Net weight (N.W)	**41 kg**	**53 kg**	**78 kg**	**90 kg**
Gross weight (G.W)	**58 kg**	**75 kg**	**104 kg**	**123 kg**
Baskets	1 × (ø275 × 395 mm)	2 × (ø325 × 235 mm)	2 × (ø425 × 275 mm)	2 × (ø475 × 365 mm)
STERILIZATION PERFORMANCE				
Working pressure	33 psi (0.23 MPa)	33 psi (0.23 MPa)	33 psi (0.23 MPa)	33 psi (0.23 MPa)
Max. temperature	134 °C	134 °C	134 °C	134 °C
Temperature setting range	116 – 134 °C (240.8 – 273 °F)	116 – 134 °C (240.8 – 273 °F)	116 – 134 °C (240.8 – 273 °F)	116 – 134 °C (240.8 – 273 °F)
Heat average (uniformity)	≤ 0.5 °C	≤ 0.5 °C	≤ 0.5 °C	≤ 0.5 °C
Sterilization timer range	4 – 999 min	4 – 999 min	4 – 999 min	4 – 999 min
Exhaust method	Automatic	Automatic	Automatic	Automatic
Drainage	Manual	Manual	Manual	Manual
Temperature sensor	Flexible PT-100	Flexible PT-100	Flexible PT-100	Flexible PT-100

Dimensions are in millimetres. Gross weight (G.W) includes packing.

SPECIFICATIONS

Power & electrical (continued)

Specification	35 L 35B	50 L 50B	100 L 100B	150 L 150B
HEATING & ELECTRICAL				
Heating element	1 kW × 1 1.5 kW × 1	1.5 kW × 2	1.5 kW × 1 3 kW × 1	3 kW × 2
Power	**2.5 kW**	**3 kW**	**4.5 kW**	**6 kW**
Current at 220 V	**12 A**	**13.6 A**	**20.5 A**	**27 A**
Current at 120 V	**21 A**	**25 A**	**37.5 A**	**—**

150 L: 6 kW, 220–240 V, 27 A, 60 Hz, single phase. The 150 L is offered in the 220 V version only. Please confirm voltage and plug configuration when ordering.

At a glance

35B

35 L

Chamber	**ø300 × 450 mm**
Overall	**436 × 473 × 850 mm**
N.W	**41 kg**
G.W	**58 kg**
Power	**2.5 kW**

50B

50 L

Chamber	**ø350 × 515 mm**
Overall	**544 × 536 × 985 mm**
N.W	**53 kg**
G.W	**75 kg**
Power	**3 kW**

100B

100 L

Chamber	**ø450 × 620 mm**
Overall	**617 × 627 × 1135 mm**
N.W	**78 kg**
G.W	**104 kg**
Power	**4.5 kW**

150B

150 L

Chamber	**ø500 × 747 mm**
Overall	**660 × 676 × 1255 mm**
N.W	**90 kg**
G.W	**123 kg**
Power	**6 kW**

Options

- Capacity: 35 L, 50 L, 100 L, 150 L
- Voltage: 220 V or 110 V (150 L: 220 V only)
- User manual available for download

Warranty & service

- **One-year** warranty
- 30-day money-back guarantee on most new, unopened items
- Free door-to-door shipping; DDP terms available

Request a quotation

Contact LORDERAN for pricing, configuration and shipping details.

www.lorderan.com