

# Autoclave - Vertical

## Robust and Compact Space-efficient

LuxMed<sup>®</sup> Vertical autoclaves use high-pressure steam for effective sterilization in healthcare, biotechnology, and other sectors by killing microorganisms on medical instruments, lab equipment, and biological waste. They are used in hospitals, operating rooms, pharmaceutical settings, research labs, and educational institutions to maintain hygiene and ensure the reliability of experiments and product quality.

### Primary Usage

- **Healthcare:** Sterilize medical instruments, surgical tools, and other equipment to prevent hospital-acquired infections (HAIs).
- **Laboratories:** Sterilize glassware, culture media, biological waste, and pipettes to maintain aseptic conditions and ensure accurate experimental results.
- **Pharmaceutical Industry:** Sterilize equipment, formulations, and containers to meet strict quality control and regulatory standards for product sterility.
- **Biotechnology:** Used for sterilization processes crucial to biomedical research and biotechnology applications.

### Other Applications

- **Food and Beverage:** Ensure hygiene standards by maintaining safe materials.
- **Veterinary Clinics:** Essential for sterilizing equipment and managing animal research.
- **Dental Practices:** Maintain hygiene and control infections in dental settings.
- **Educational Institutions:** Used for sterilization in academic and educational labs.

### How it Works

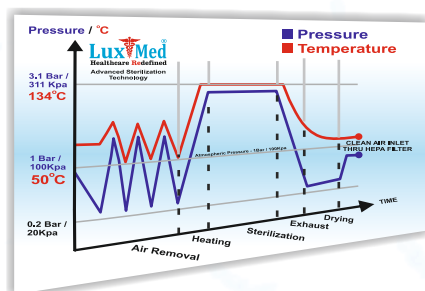
1. **High-Pressure Steam:** The autoclave creates a high-pressure environment, which raises the boiling point of water, allowing steam to reach higher temperatures.
2. **Microorganism Destruction:** This high temperature and pressure effectively kill all microorganisms, including bacteria, viruses, and molds.
3. **Standard Cycles:** Many autoclaves are set to standard parameters for sterilization, such as a temperature of 121°C (250°F) and 15 psi, though higher temperatures may be used for specific materials.



Standard Model



Laboratory Model



### VARIANT

- **Vertical Autoclave Class B Triple Wall - LM-TW-B**
- **Vertical Autoclave Class N Double Wall - LM-DW-N**

Chamber Size in (Dia x Depth)	Load	Capacity (Approx)
250 x 450 mm	2 KW	22 Ltr.
300 x 500 mm	3 KW	40 Ltr.
350 x 550 mm	4 KW	50 Ltr.
400 x 600 mm	5 KW	78 Ltr.
450 x 600 mm	5 KW	98 Ltr.
550 x 750 mm	6 KW	152 Ltr.

