

## Autoclave



An autoclave is a sterilization device that uses high-pressure saturated steam to kill microorganisms, including bacteria, viruses, and spores, on laboratory equipment, media, and waste.

### Key Features:

#### 1. Sterilization Process:

- Operates at high temperatures (typically 121°C or 134°C) and pressure (15 psi) for effective sterilization.
- Cycle times vary based on the load and material.

#### 2. Applications:

- Sterilizing surgical instruments, glassware, and lab equipment.
- Decontaminating biohazardous waste.
- Preparing culture media and reagents.

#### 3. Design:

- Made of durable materials like stainless steel.
- Available in various sizes (benchtop to large capacity).

#### 4. Safety Features:

- Pressure and temperature sensors for safe operation.
- Automatic shut-off and locking mechanisms.