

RADIAL LOCKING VERTICAL AUTOCLAVE

(Vertical Steam Sterilizers)

An **Autoclave** is a device to sterilize equipment and supplies by subjecting them to high pressure saturated steam at 121 °C or more, typically for 15-20 minutes.

In its most basic form the autoclave is a pressure cooker. Water is heated in a pressurized environment to create steam. Using pressure makes it possible to heat to higher temperatures with less energy. Autoclaves are usually made of steel and have various configurations for removing air prior to pressurization. Downward displacement autoclaves use gravity to remove air. Steam pulsing autoclaves use pulses of steam along with pressurizing and depressurizing to reach optimum pressure. Vacuum pump autoclaves suck air out for pressurization. Super atmospheric autoclaves are a combination of steam pulsing and vacuum pump techniques. Autoclaves are widely used in microbiology, medicine, tattooing, body piercing, veterinary science, mycology, dentistry, chiropody and prosthetic fabrication.

Typical loads include laboratory glassware, surgical instruments, medical waste, patient care utensils, animal cage bedding, and Lysogeny broth.

A notable growing application of autoclaves is in the pre-disposal treatment and sterilization of waste material, such as pathogenic hospital waste. Machines in this category largely operate under the same principles as the original autoclave in that they are able to neutralize potentially infectious agents by utilizing pressurized steam and superheated water.



Basic Features

- Versatile usage
- Ergonomic Design
- Energy Efficient
- Double Safety Radial Locking Arrangement
- Double Safety Valve Protection
- Hydraulic Testing Up to 2.5 times the working pressure
- Calibration And Protocol Documentation

SPECIFICATION

HEATING

The heating process in our vertical autoclave is done through specially designed water heaters of suitable wattage to ensure optimum sterilization time in every sterilization cycle

Working Temperature / Pressure

As per the international standards and guidelines our vertical autoclave have a working temperature of 121oc. However for specific requirements our autoclaves can be upgraded to be used for up to 134o c. Working pressure for our standard model vertical autoclave is 15 psi, however this can be upgraded to be used for higher pressures of up to 30 psi.

Pressure Range

The normal pressure range of our autoclave is 5 psi to 20 psi.

General Safety Considerations

- ❑ Your VERTICAL AUTOCLAVE and its recommended accessories have been designed and tested to meet strict safety requirements.
- ❑ For continued safe operation of your VERTICAL AUTOCLAVE, always follow basic safety precautions including:
 - ❑ Read this entire manual before using the VERTICAL AUTOCLAVE.
 - ❑ Use only approved accessories. Do not modify system components. Any alterations or modifications to your VERTICAL AUTOCLAVE may be dangerous and will void your warranty.

Dia. x Height	Volume	Watt
250 mm x 450 mm	22 liters	1 KW
300 mm x 500 mm	35 liters	2 KW
350 mm x 550 mm	50 liters	3 kw
400 mm x 600 mm	75 liters	4 kw
450 mm x 600 mm	95 liters	4 kw
450 mm x 750 mm	120 liters	5 kw
550 mm x 750 mm	175 liters	6 kw



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