

AUTOCLAVE

AVI-101 SERIES



TECHNICAL DATA

Temperature Range : 121°C to 125°C

Pressure Range : 15 to 22 PSI

Factory set : 15 PSI at 121°C

Supply : 230V,AC



INTRODUCTION OF AUTOCLAVE

The autoclave was invented by Charles Chamberland in 1879. The steam digester, created by Denis Papin in 1679 is considered as a precursor to the autoclave. Autoclaving is a method that is universal in almost all scientific settings. It uses a device that steam heats to destroy any microbial life that may be present on a contaminated Load (Good). Any load that is subjected to a full sterilization cycle is then deemed to be sterile and can be employed without fear of introducing foreign microorganisms into a sensitive environment.

This environment could range from laboratories, hospital operating rooms, to the food production facility, and more.

The basic principle of steam sterilization, as accomplished by the autoclave, is to expose each item to direct steam. This process displaces the air at the required temperature and pressure for a specified time. There are four parameters of the steam sterilization. They are steam, pressure, temperature, and time. The chamber is the main and primary component of a steam autoclave. It consists of an inner chamber and an outer jacket.

Avante makes laboratory Autoclaves that are suited for the pharma & biotech industries, food research, agriculture research, health care & diagnostic labs, universities, quality assurance labs, and more.



CONCEPTION

The autoclave chamber consisted of a vertical dual-walled, designed with closure and flange base plate made of stainless steel.

All the seams are Argon welded and include a joint-less silicon gasket and heavy-duty industrial flange heater. The autoclave also features a safety spring-loaded pressure valve, a steam and safety high-pressure release valve, and a lid fitted-gauge 0-30 PSI.

The Basket is made of heavy stainless-steel rod wire mesh and the foot lifting arrangement is provided in 121C/D/E/F.

INSTRUMENT VARIANTS

SEMI-AUTOMATIC SYSTEM FOR AUTOCLAVE : The semi-automatic system is outfitted with microprocessor-based digital temperature controller, an inbuilt timer, a cut off system for low water level with a magnetic float switch for heater safety.

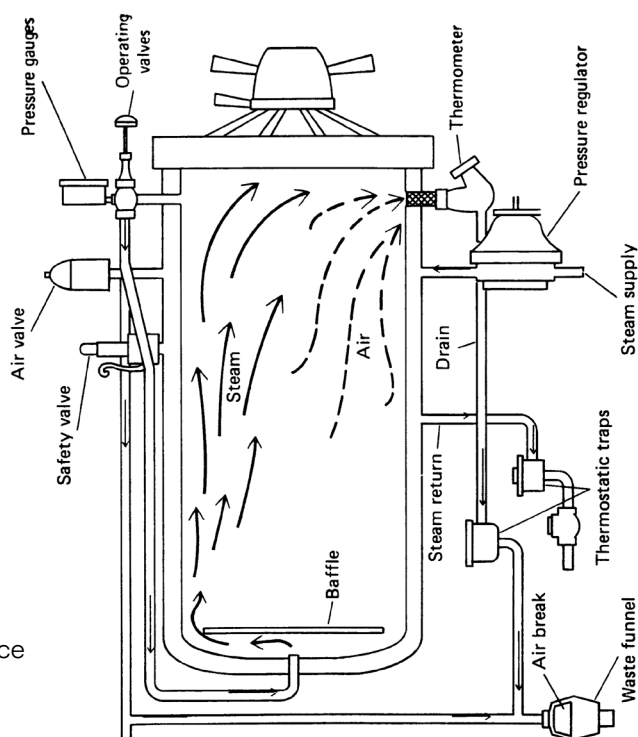
FULLY-AUTOMATIC SYSTEM FOR AUTOCLAVE: The fully-automatic system is outfitted with microprocessor-based digital temperature controller, an inbuilt timer, automatic purging of steam with a solenoid valve and a cut off system for low water level with magnetic float switch for heater safety.

AUTOCLAVE FINDS TEST APPLICATIONS IN

- Quality Assurance Labs
- Pharma & Biotech Industries
- Food Research
- Agriculture Research
- Health Care
- Diagnostic Labs
- Universities

DISCRETIONARY ACCESSORIES

- A safety pressure control switch
- Self-purging and vacuum breaker system
- Auto-data logger with four channels and a printer interface
- A water level indicator with glass tube
- Lifting arrangement with a foot pedal for sizes A & B





TECHNICAL DATA

Models	Capacity Liters	Internal Size Dia x Ht cm	Rating kw
AVI-101 A	22	25 x 45	1.5
AVI-101 B	35	30 x 50	2.0
AVI-101 C	53	35 x 55	3.0
AVI-101 D	95	45 x 60	4.0
AVI-101 E	119	45 x 75	4.5
AVI-101 F	178	55 x 75	6.0



DISCRETIONARY FEATURES

- A CFR 21 Part 11 Compliant Software For Data Logger
- Comprehensive Data Scanner With Sensor
- Digital Timer
- Responsive Data Logger
- Secure Digital Temperature Controller

SAFEGUARDING TRAITS

A 2nos. safety high-pressure release valve

STANDARD MODEL

The interior and exterior is designed with SS304

GMP MODEL

The interior is made with S.S. 316 and the exterior is made using stainless steel 304



Note: The design, color, specification, and models are subject to transformation due to ending research, development, and technological advances.

India

Avant Garde Enterprises Pvt. Ltd (Project Office)
II Floor, Bldg. No. 1-68/4 & 5, Plot No. 80 & 81
Arunodaya Co-Op Housing Society Ltd.
Madhapur, Hyderabad - 500 081, India
+91-40-4851-4122
info@avantgardeinc.com

Dubai

Avant Garde Inc FZCO (Management Office)
Building 3W, Office 214, Al Quds Street, Dubai
Airport Free zone (DAFZA) P.O.Box 54833
+97142594192
info@avantgardeinc.com