

# Вертикальные лабораторные автоклавы с предварительным вакуумированием и сушкой серии АЕ-В

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Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: [gra@nt-rt.ru](mailto:gra@nt-rt.ru) || сайт: <https://rayra.nt-rt.ru/>







## AE-B Series

# VERTICAL AUTOCLAVES WITH PREVACUUMS AND DRYING

### CLASSIC LINE


Excellent performance, advanced features and versatile for multiple applications.


### APPLICATIONS


-  Culture media and liquids
-  Glassware
-  Plastics and metal objects
-  Laboratory waste bags
-  Porous solids and wrapped objects
-  Objects with complex geometries





### BENEFITS


 Immediate production of high-quality saturated steam thanks to the built-in steam generator.

 Equipped with a heating jacket and vacuum pump to achieve complete drying of solid loads upon completion of a sterilization cycle.

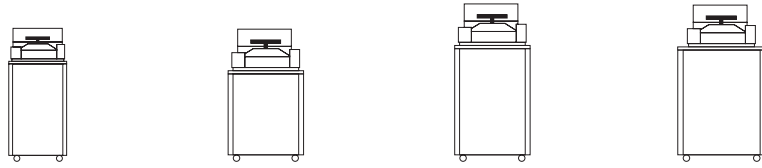
 Mechanical purge via multiple prevacuum pulses to ensure good penetration of steam into complex geometries and porous and bulky objects.

 Suitable for sterilizing wrapped objects, porous objects, textiles, objects with complex geometries and bulky loads.

 5" touchscreen display with 50 programs and advanced functions.

 Direct discharge into the drain after each cycle and automatic supply to the sterilization chamber from the built-in purified water tank.

## SPECIFICATIONS



References	AE-50-B	AE-75-B	AE-110-B	AE-150-B
Total/usable volume of the chamber L	55/50	79/75	115/110	175/153
Usable dimensions of the chamber Ø x H mm	300 x 710	400 x 600	400 x 850	500 x 760
External dimensions L x D x H mm	505 x 580 x 1290	610 x 700 x 1185	610 x 700 x 1435	750 x 820 x 1400
Loading height mm	975	870	1120	1085
Net weight Kg	99	135	165	245
Available powers W	3600	3600 or 6000	6000 or 9000	6000 or 9000
Standard voltage* V	230	230	400	400
Frequency Hz	50/60	50/60	50/60	50/60

\*Other voltages and electrical configurations available on request. Special models with increased power may operate with other voltages.

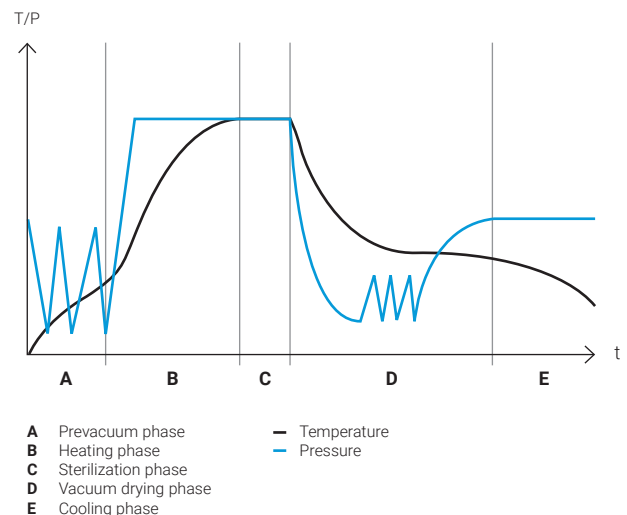
## DESCRIPTION

- Heating by a powerful built-in steam generator.
- Equipped with a heating jacket and a vacuum pump to provide initial prevacuum pulses and final vacuum drying, ensuring complete dryness of solid loads.
- AISI-316L stainless steel sterilization chamber. AISI-304 stainless steel external housing.
- Maximum temperature and pressure: 134°C and 2,1Barg.
- 5" TFT-LCD colour touchscreen displays sterilization parameters, graphics, alerts and errors.
- Equipped with 50 customizable programs adjustable by time, temperature, number of prevacuums, drying time and type of load (solids or liquids). Flexible probe control is optional. Includes Bowie-Dick and vacuum test cycles.
- Automatic start-up and sterilization chamber preheating programmable by date and time.
- Automatic water supply from the built-in purified water tank to the sterilization chamber. Water level sensors are included in both locations. Upgrade to automatic water feed from water network is optional. The discharge from each cycle pours directly into the drain, with the option of using an external waste water tank.
- Air inlet fitted with a bacteriological filter.
- User administration control.
- Flexible probe, embedded ticket printer, control software, automatic water filling and water purifier are optional.

## OPERATION ON SOLID LOADS

In the prevacuum phase, the air in the chamber is purged mechanically by means of multiple vacuum pulses. Simultaneously, the steam generator is activated to inject steam into the sterilization chamber. When the sterilization temperature is reached, the sterilization phase begins and the temperature is accurately sustained for the predefined duration.

Then, only in solids programs, a vacuum drying phase begins using a vacuum pump and a heating jacket to completely dry the load. Finally, a natural cooling phase starts.



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