

Вертикальные лабораторные автоклавы с функцией сушки серии AE-DRY

Технические характеристики

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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 || сайт: <https://rayra.nt-rt.ru/>

AE-DRY Series

VERTICAL AUTOCLAVES WITH DRYING

CLASSIC LINE


Cost-effective, robust performance and limited consumption of laboratory resources.


APPLICATIONS


-  Culture media and liquids
-  Plastics and metal objects
-  Glassware
-  Laboratory waste bags
-  Porous solids and wrapped objects




BENEFITS


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

 Easy installation and simple maintenance. No specific connections required.

 Mechanical purge via a vacuum pulse to help remove air pockets from the load and improve steam penetration.

 Wide range with five models configurable with several options and accessories.

 Automatic supply to the sterilization chamber from the built-in water tank. Automatic filling of the tank with purified water is optional.

 Special models available with increased power to achieve faster sterilization cycles.

SPECIFICATIONS



| References | AE-28-DRY | AE-50-DRY | AE-75-DRY | AE-110-DRY | AE-150-DRY |
|---|------------------|------------------|------------------|--------------------|------------------|
| Total/usable volume of the chamber L | 33/31 | 55/50 | 79/75 | 115/110 | 175/153 |
| Usable dimensions of the chamber Ø x H mm | 300 x 440 | 300 x 710 | 400 x 600 | 400 x 850 | 500 x 760 |
| External dimensions L x D x H mm | 505 x 580 x 1110 | 505 x 580 x 1290 | 610 x 700 x 1185 | 610 x 700 x 1435 | 750 x 820 x 1400 |
| Loading height mm | 795 | 975 | 870 | 1120 | 1085 |
| Net weight Kg | 75 | 95 | 123 | 150 | 235 |
| Available powers W | 2000 or 3200 | 3200 or 5000 | 3200 or 6000 | 4500, 6000 or 9000 | 6000 or 9000 |
| Standard voltage* V | 230 | 230 | 230 | 400 | 400 |
| Frequency Hz | 50/60 | 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.

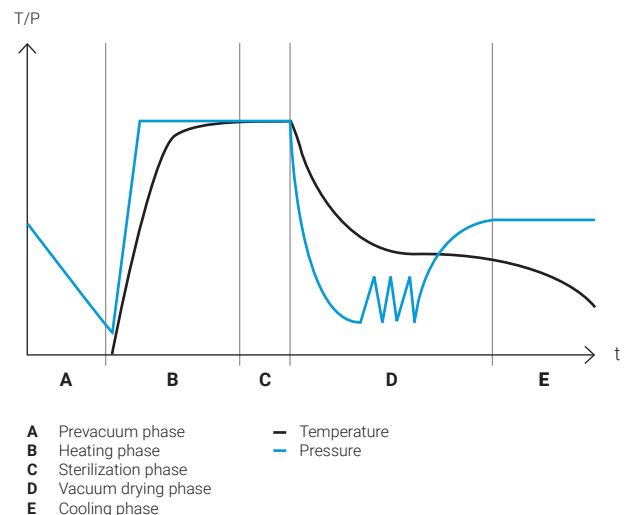
DESCRIPTION

- Equipped with a heating jacket and vacuum pump to fully dry solid loads.
- Steam generation by powerful Incoloy® 825 heating elements protected with a grid.
- AISI-316L stainless steel sterilization chamber. AISI-304 stainless steel external housing.
- Maximum temperature and pressure: 134°C and 2,1Barg.
- Alphanumeric LCD display shows sterilization parameters, alerts and errors.
- Programmable automatic start-up of up to 24h.
- Adjustable temperature maintenance at the end of the sterilization cycle between 40-80°C (agar mode).
- PID microprocessor control with four predefined and six editable programs, adjustable by time, temperature, drying time and type of sterilization cycle (solids or liquids, with optional agar mode and/or flexible probe control).
- Automatic water supply from the built-in water tank to the sterilization chamber. Water level sensors are included in both locations. Upgrade to automatic water feed from water network is optional.
- Air inlet fitted with a bacteriological filter.
- 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 mechanically purged with a single vacuum pulse. Afterwards, the powerful heating elements heat up water to produce saturated steam. When the sterilization temperature is reached, the sterilization phase begins and the temperature is accurately sustained for the predefined duration.

Only in solids programs, at the end of the sterilization phase, a vacuum drying phase starts using a vacuum pump and a heating jacket to completely dry the load. Finally, a natural cooling phase begins. In liquid programs with agar mode activated, the preset temperature is maintained indefinitely.



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