

Средоподготовители серии АЕ-МР

Технические характеристики

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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-MP Series

CULTURE MEDIA PREPARATORS

CLASSIC LINE

Fast, efficient, automatic and safe solution for preparing culture media.

APPLICATIONS

-  Preparation of agar
-  Preparation of lysogeny broth
-  Preparation of buffer solution
-  Microbiology laboratories
-  Plant tissue culture
-  Cultivation of plant stem cells for cosmetics



BENEFITS



Preparation, sterilization, fast cooling and dispensing all integrated in one piece of equipment.



High productivity of culture medium per cycle and adjustable dispensing speed of 7-100mL/s.



Much faster preparations with up to 90% shorter cooling time compared to traditional autoclaves. Overpowered models are available to drastically reduce the duration of the heating phase.



Safe and accurate sterilizations thanks to F_0 control.

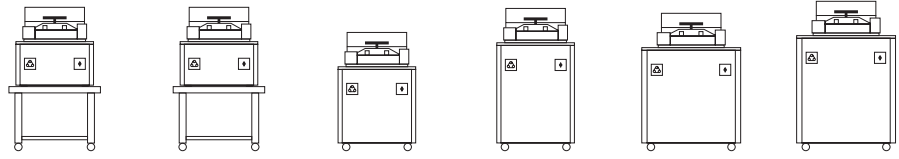


Before, during and after the dispensing phase, the dispensing lines can be cleaned and disinfected with steam pulses that reach the entire length of the dispensing line.



Equipped with ports for dispensing supplements, pH correctors and antibiotics. Additionally, programs can include temperature segments, allowing for greater flexibility and versatility of formulation options.

SPECIFICATIONS



| References | AE-20-MP-10L | AE-20-MP | AE-40-MP | AE-60-MP | AE-80-MP | AE-100-MP |
|--------------------------------------------------------------------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|
| Maximum capacity for preparing culture media L | 8 | 18 | 36 | 54 | 72 | 90 |
| Minimum capacity for preparing culture media* (min. by F_0 - min. by time) L | 2 - 5 | 2 - 10 | 5 - 20 | 10 - 30 | 10 - 50 | 20 - 70 |
| External dimensions L x D x H mm | 615 x 815 x 735 | 615 x 815 x 735 | 615 x 815 x 1100 | 615 x 815 x 1320 | 755 x 935 x 1285 | 755 x 935 x 1385 |
| Inner vessel dimensions \emptyset x H mm | 210 x 236 | 330 x 236 | 330 x 461 | 330 x 696 | 420 x 594 | 420 x 734 |
| Net weight Kg | 125 | 128 | 135 | 155 | 244 | 265 |
| Available power options** kW | 3 | 3 | 6 or 12 | 9 or 15 | 15, 20 or 30 | 15, 20 or 30 |
| Standard voltage** V | 230 | 230 | 400 | 400 | 400 | 400 |
| Frequency Hz | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |

*The minimum volume capacity is much lower if F_0 -controlled sterilization is performed instead of control by time at 121°C. Contact our technical service to receive more information.
 **Other voltages and electrical configurations available on request. Special models with increased power may operate with other voltages.

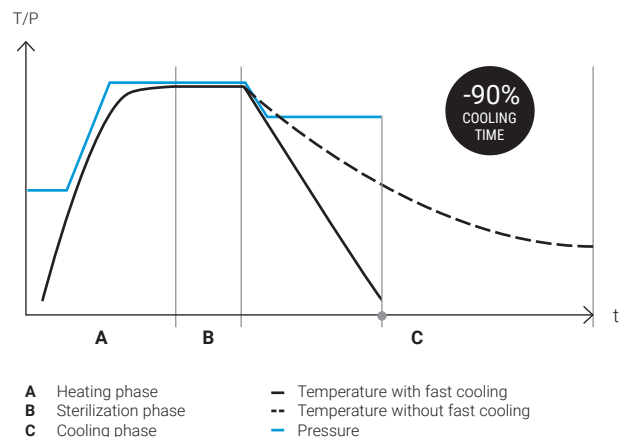
DESCRIPTION

- Sterilization chamber and inner vessel made of AISI-316L stainless steel. AISI-304 stainless steel external housing.
- Fast cooling by water cooling coils.
- Built-in compressed air system in the larger models for dispensing at higher speed through the external dosing station. Optional on smaller models.
- High-power magnetic stirrer adjustable from 50 to 200rpm.
- Built-in flexible probe and integrated peristaltic pump.
- Accurate dosing via a programmable peristaltic pump that can be controlled through the use of a pedal or delay function. Additionally, while working with the external dosing station, the dispensing can be performed via pedal or optical sensor.
- 5" TFT-LCD colour touchscreen display.
- 50 programs available, adjustable by time, temperature or F_0 , with the option of temperature control by flexible probe or chamber temperature. The temperature can also be kept constant at the end of the cycle and the dosing temperature, stirring speed and pressure support during dispensing can all be adjusted.
- Direct supply of water to the sterilization chamber from the water network. Manual filling is optional.
- Air inlet fitted with a bacteriological filter.
- Easy and convenient cleaning and removal of the inner vessel with its ergonomic handles. The dispensing lines can be cleaned at any time using steam pulses.
- USB port for downloading data and implementing updates and Ethernet port for PC connection.
- Embedded or external ticket printer are optional.

OPERATION

In the heating phase, the powerful heating elements of the sterilization chamber heat water to produce saturated steam and also heat up the inner vessel. When the sterilization temperature is reached in the medium, the sterilization phase begins and the temperature is accurately sustained for the predefined duration.

Finally, a fast cooling phase begins with the addition of pressure support and the circulation of water within the cooling coils to quickly cool the load down to its dispensing temperature, which is maintained until all the prepared culture media is dispensed.



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