



Media Preparator AE-MP Range

Sterilization with stirring, cooling and dispensing built-in

AE-MP Range – Sterilization with stirring, cooling and dispensing all integrated in the same device for an efficient and high quality media culture preparation.

Operating Principal

Medium – Easy and safety handling. Internal cuvette for a directly preparation.



Stirring – Internal stirring on the cuvette for a homogenous mixing of the media over a wide viscosity range. Special design for preventing coagulation during sterilization. Speed control by manual potentiometer for better adjustment.



Touch Screen Display – Brand new Touch Screen color display for an easy programming and parameters selection for sterilization process.



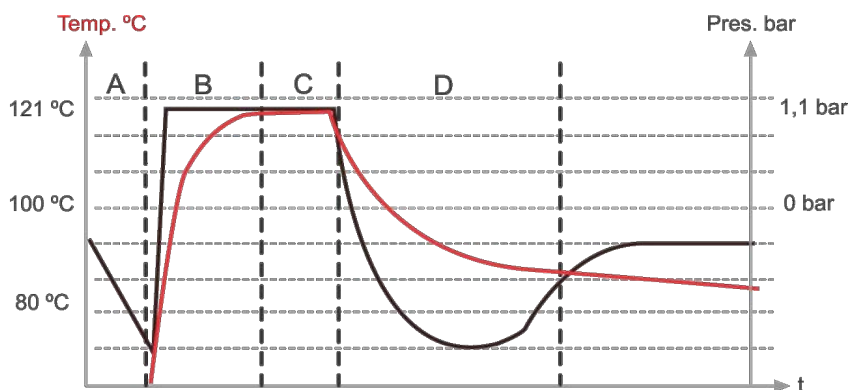
Main screen



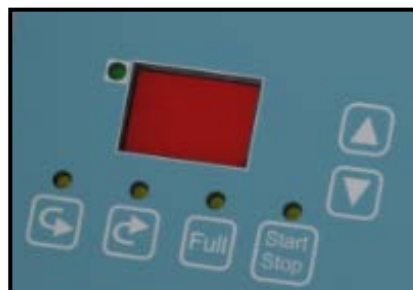
Sterilization screen

Programs – Up to 50 programs user-defined with the following parameters setting:

- Sterilization temperature
- Sterilization time
- Dispensing temperature



Dispensing – The required dispensing dose is selected with an external control and a foot pedal is pressed for integrated peristaltic pump activation.



Water Filling – Pure water for sterilization can be added manually between the cuvette and the main chamber until level detector is activated. Also, automatic filling is available by connecting the device to pure mains water.



Sterilization Process

Fast Heating – Powerful heating elements for a fast saturated steam generation.

Sterilization Control – A PT-100 temperature probe controls the chamber temperature while another flexible PT-100 temperature probe is submerged in the culture media for monitoring its temperature. Both are connected to the microprocessor in order to control the complete sterilization process while stirring is activated.

Rapid Cooling – An internal heat exchanger connected to tap water allows a fast and gentle media cooling with a regulation system for post-temperature from 30°C to 80°C.



Security – All safety standards are covered with safety valve and safety thermostat, door opening prevention system in case of overpressure, open door sensor and water level detector. EU Directive and Standards:

2014/35/UE *Low Voltage*

2014/30/UE *Electromagnetic Compatibility*

2014/68/UE *Pressure Equipment*

EN-61010-1

EN-61010-2-040

EN-61326

AD 2000 Merkblatt

Dispensing Stage

Adding Port – For the addition of supplements during sterilization process and prior to dispensing.

Dispensing Port – For connecting the proper hose and dispensing at the end of the sterilization process to avoid the risk of contamination. The dispensing port's cap has internally an integrated hose which is sterilized on each cycle.

Dispensing Pedal– Proper hose is connected to dispense port for a manual Petri dishes filling. The required dose is selected with an external control and a foot pedal is pressed for integrated peristaltic pump activation.



Integrated peristaltic pump – Relation between hose diameter and flow rate at maximum speed (270 rpm):

Hose diameter (mm)	Ø0,5	Ø0,8	Ø1,6	Ø3,2	Ø4,0	Ø4,8	Ø6,4	Ø8
Flow rate (ml/min)	0,5-7,0	1,3-18	7,5-79	20-257	32-404	75-600	130-900	200-1300



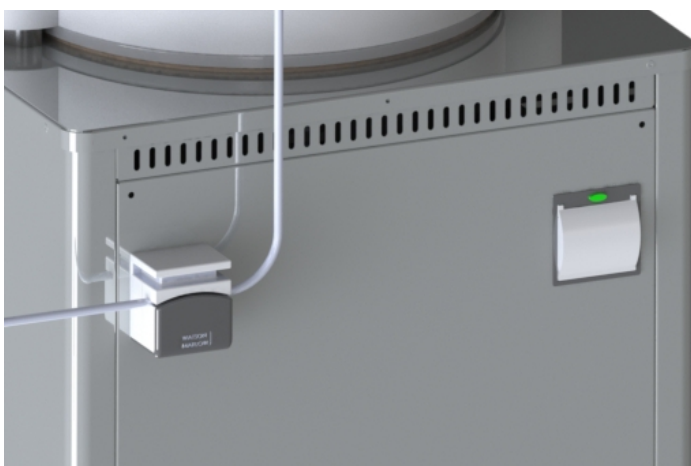
Communications and Documentation

USB Port – For electronic storage of process data to a USB flash drive.

Ethernet Port – For live monitoring with direct data storage. It is needed the customized software SOFT-SW8000.



Integrated Printer – For quality printouts after each cycle. Intervals can be adjustable. Printer has to be requested before ordering.

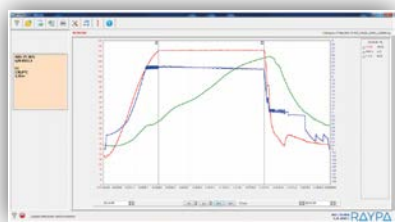


Technical Data

	AE-20-MP	AE-40-MP	AE-60-MP
Capacity			
S.S. Cuvette (AISI 316)	2-20L	4-40L	5-60L
Temperature range			
Sterilization Temp.	50°C-125°C	50°C-125°C	50°C-125°C
Dispensing Temp.	30°C-80°C	30°C-80°C	30°C-80°C
Times			
Heating up Time	20-30 min	20-30 min	20-40 min
Cooling down Time	5-20 min	5-30 min	5-40 min
Features			
Stirrer speed	50-200 rpm	50-200 rpm	50-200 rpm
Heating capacity	Max. 3kW	Max. 6kW	Max. 9kW
Electricity supply	200-240V 50/60Hz 16A	400V 50/60Hz 16A	400V 50/60Hz 16A
Dimensions and Weight			
Dimensions (DxWxH)	62x73x70 cm	62x73x120 cm	62x73x130 cm
Weight	95 Kg	165 Kg	180 Kg

Accessories

PC connection for ETHERNET



(Reference: SOFT-SW8000)

Integrated Thermal Printer



(Reference: IT/TS)