

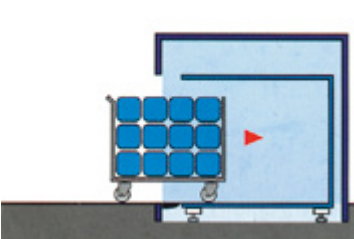


Steam sterilizers
Matachana 2000 I

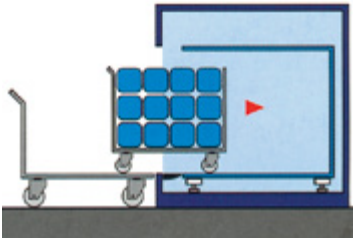
Features

MATACHANA has updated the design of its large capacity steam sterilizers, combining the latest developments technology can provide, with efficiency, safety, simplicity and user-friendliness. Sterilizers from Series 2000 I are built following the guidelines of international quality Standard ISO 9001. They are ideal for research centers, animal facilities, microbiology laboratories, BSL-2 and BSL-3 areas, including sterile material supply industries in general, which need to ensure speed and safety within its large volume sterilization processes.

- Chamber and doors made of high quality stainless steel 1.4404 (AISI 316L), jacket in stainless steel EN 1.4301 (AISI-304).
- Pneumatic automatic sliding horizontal door which enables to load the sterilizer from floor level or over floor skirting level, as appropriate, electrically operated.
- Vacuum system by means of ejector-venturi, silent and performant with water-saving solution (sterilizers up to 3 m³) or by liquid-ring pump (from 3 m³).
- Control system through two PLC (control and register) which ensures independent readings (temperature/pressure) in which all operations monitoring of the unit are centralized. Likewise the sterilizer incorporates a touch screen that enables easy and intuitive handling of it.
- Equipped with appropriate systems for viewing and printing parameters of process development.
- The following functions can be executed on the touch screen:
 - Doors opening and closing, start up and reset of the current cycle.
 - Monitoring the temperature, pressure and expected time for cycle completion. Viewing alarm, warnings and manipulation errors messages.
 - Indication of doors, alarms, current operating phase conditions, etc.
- Alphanumerical digital printer for "on site" cycle documented record.
- Vacuum test and B&D test programs.
- Sterilization programs for solid material, with adjustable temperature between 115 and 135 °C.
- Test connections for connecting temperature and pressure measuring equipment (validation).



Floor level sterilizer loading



Over floor skirting sterilizer loading

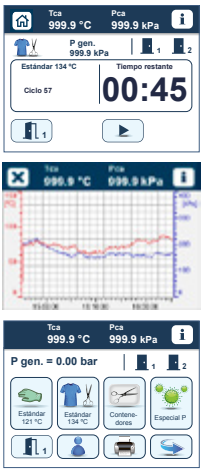
Options

- Sterilization programs for liquids in not-hermetically sealed containers, with adjustable temperature between 105 and 135 °C, as well as "Fo" value calculation.
- Low temperature programs, with adjustable temperature between 70 and 115 °C.
- Gravity program.
- Feed processing program.
- Air treatment system through a 0,2 µ self sterilizable filter condensate line and condensates treatment inside the chamber, for potentially biocontaminated areas and material (ex. BSL-2, BSL-3 zones, etc.).
- Air tightness of zones through a drawer type enclosure built entirely in stainless steel and independent pressurization of doors' seals.
- Graphic video-recorder for pressure and temperatures.
- Connecting to external cooling system with substantial water savings and reduced cycle time.
- Natural cooling or by jacket flooding + sterile air counter pressure for open liquids programs.
- 21 CFR part 11.
- Touch screen command at unloading side.
- EN 285 (applicable requirements).
- Other options: upon request.

All our sterilization equipment can be provided with options and accessories that allow maximum use of natural and energy resources (water, air, power energy, fuel and steam) with systems that enable the following connection to a distribution system by means of cool water ring from the center for recovery and cooling water vacuum system for a minimum water consumption and maximum performance of the vacuum system.

All the power of technology applied to sterilization

- Working with the sterilizer is very simple. The user operates the unit from the touch screen. From a Main Menu screen, the operator is guided through several Sub-menus, so as to perform the required operations.
- The cycle can be monitored directly from the screen, as it allows the graphical display of the process in "real time".
- The microcomputer is ready for Teleservice option ("on line" remote maintenance) and has access ports for PC connection.



| Models | 2.1000LV-1I | 2.1000LV-2I | 2.1300LV-1I | 2.1300LV-2I | 2.1560LV-1I | 2.1560LV-2I | 2.2100LV-1I | 2.2100LV-2I | 2.3100LV-1I | 2.3100LV-2I | 2.6637LV-1I | 2.6637LV-2I |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Technical specifications | 1 door | 2 doors | 1 door | 2 doors | 1 door | 2 doors | 1 door | 2 doors | 1 door | 2 doors | 1 door | 2 doors |
| Chamber dimensions ^(*) (mm) | | | | | | | | | | | | |
| Height | 1440 | | 1440 | | 1440 | | 1440 | | 1440 | | 2150 | |
| Width | 700 | | 700 | | 960 | | 960 | | 960 | | 1260 | |
| Depth | 960 | | 1264 | | 1264 | | 1520 | | 2400 | | 2450 | |
| Total dimensions (mm) | | | | | | | | | | | | |
| Height | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2860 | 2860 |
| Width | 1800 | 1800 | 1800 | 1800 | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 | 3100 | 3100 |
| Depth | 1470 | 1470 | 1770 | 1770 | 1770 | 1770 | 2030 | 2030 | 2910 | 2910 | 3030 | 3030 |
| Chamber volume (liters) | 961 | 961 | 1265 | 1265 | 1747 | 1747 | 2101 | 2101 | 3318 | 3318 | 6637 | 6637 |
| Power (kW) | 5 | | 5 | | 5 | | 7 | | 7 | | 18 | |

(*) MATACHANA offers the possibility to adapt the chamber's dimensions according to customer needs.





MATACHANA GROUP

Innovation is the way forward

Since our foundation 50 years ago, our mission has been to provide the best service, bringing our knowledge and field experience to our customers to facilitate their daily work, allowing them to be efficient in the production whereas keeping rigorously the quality.

Our history has taken us from the beginnings in 1962 to the transformation in 2000 in MATACHANA GROUP, with its subsidiaries in Germany, France, USA, Argentina, Malaysia and China, as well as the collaboration of direct distributors in over 110 countries.

In MATACHANA GROUP we are aware that Training and Service contribute decisively to achieve customer satisfaction. For this reason, we have always invested in the development of these two areas of activity, which enables a direct contact with customers and help us to develop together a continuous improvement process.

Technical Assistance Service

A service of engineers, highly skilled expert technicians and support staff, all committed to ensure the proper equipment operation and condition.

Training Academy



Committed to the responsibility to obtain the optimum operation from our equipment, in MATACHANA GROUP we invest in the training of future users.

In addition, we offer training courses regularly in the 5 continents, providing this service to all our customers.

Environmentally friendly

The sterilizers are designed and manufactured using the latest technologies on the market to achieve the best results in terms of energy savings and reduction in water consumption.

Our Production Center complies with the ISO 14001 Environmental Management System and ISO 50001 Energy Management.

Quality

The MATACHANA devices are developed, manufactured and tested within a strict quality control according to the International Standard ISO 9001.



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