



Constructeur depuis 1953

**Solyclave**®  
*Stériliseurs Vapeur*

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# Specifications



**Vertical Autoclaves**  
**UNICLAVE 99**

A.J. COSTA (IRMÃOS), LDA  
since 1953





<i>Model</i>	<i>Chamber volume (l)</i>	<i>Chamber dimensions (cm) (diam. x depth)</i>	<i>Equipment dimensions (cm) (height x width x depth)</i>
99	75	Ø40 x 57	115 x 61 x 77
	127	Ø45 x 80	128 x 72 x 95,5
	157	Ø50 x 80	128 x 72 x 95,5

**UNICLAVE 99**, manufactured by A.J. Costa (Irmãos), Lda is a vertical steam sterilizer specially directed for laboratory requirements, ideal to process small loads that demand a precise and strict control of different sterilization cycle parameters. Versatile, with fixed sterilization cycles and also enables the operator to choose the sterilization cycle parameters.

## Applications

*UNICLAVE 99* sterilizes instruments, glassware, metallic utensils, liquids, rubbers and other thermo sensitive materials, filters, culture media, etc.

*UNICLAVE 99* in order to fully correspond to laboratory or any other organization requirements can be equipped with an additional product temperature control probe, and with a printer.

## Programs / Cycles

- Development of all sterilization cycles is totally automatic.
- Uniclave 99 has sterilization cycles with parameters settled in factory and cycles with parameters selected by the operator.
- Sterilization period band adjustable from 1 to 240 minutes
- Temperature sterilization 105-134 ° C, pressure 2.2 bar
- Standard programs for sterilization of solids, single wrapped 121 and 134 ° C
- 6 fully programmable cycles for liquids with fast or slow controlled exhaust
- Special AGAR program 105 ° C disinfection temperature



## General features

- The autoclave is controlled by a microprocessor. The entire operation is made on a colour touchscreen control panel;
- Simple operation interface ;
- Choice, selection and introduction of parameters of the sterilization cycle
- Panel board
  - Touchscreen console
  - On/Off button;
  - Emergency/Stop pushbutton
  - Printer for registration and documentation of each sterilization cycle; (Optional).
- Sound alarm for fault and cycle end; (Optional)
- Vertical load of the sterilization chamber;
- Vertical autoclave mounted on casters; (Optional)
- Easy maintenance;
- Chamber material stainless steel AISI 304 mechanical polished;
- Cabinet enclosed stainless steel AISI 304 construction;
- Thermal protected locking mechanism and door handle(s);
- Steam generation by electric immersion heating stainless steel elements;
- Vacuum system by temperature shock cooling coil, which enables to do final vacuum in the chamber and drying;
- Equipped with exhaustion steam condenser;
- Double security system against overpressure with high-pressure valve;
- Sterilization chamber temperature limiter;
- Heating elements with automatic security cut off for water level failure;
- Automatic in feed water level control system, with control failure;
- Permanent degassing during sterilization, with air/steam trap;
- Equipped with bacteriological filter for intake air;
- Incorporated temperature sensor to control the temperature inside product being sterilized; (Optional)



## Accessories

➤ Loading baskets;

## External network connections

Network	Features (one phase)	Features (three phase)
Electric	1 ~ + N + G 230V 50Hz 4,5 kW	3 ~ + N + G 400V 50Hz 6kW
Water	Max. Pressure: 6 Bar Min. Pressure: 3 Bar 3/4" BSP connection	Max. Pressure: 6 Bar Min. Pressure: 3 Bar 3/4" BSP connection
Drain	Material resistant to 100 °C 3/4" BSP connection	Material resistant to 100 °C 3/4" BSP connection

## Certifications / Compliance with directives and standards

➤ **UNICLAVE 99**, conforms with the following directives and standards:

- Pressure Equipment Directive 97/23/CE.
- Specification for unfired fusion welded pressure vessels PD 5500
- Electromagnetic compatibility directive 89/336/CE.
- Electromagnetic compatibility EN 61326 and EN 61000.

➤ **A. J. Costa (Irmãos), Lda**, is certified ISO EN 9001

Certificates are issued by SGS-UKAS and assure that A.J.Costa (Irmãos), Lda, fulfils the requirements of quality management systems, which covers design, project, manufacture, maintenance, delivery and installation.