

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.