celitron

WE THINK GREEN!

MEDIUM STEAM STERILIZERS

Azteca AC Series

- **Large, horizontal round chamber** – from 75 up to 200 liters.
- **Focused design** – the 75 liters unit fits exactly 1 STU.
- **Easy to use** – one touch operation.
- **Fast and economical** – sterilization cycles from 21 minutes with advanced water and energy saving systems.
- **Best solution** – for hospitals, medical centers and as secondary sterilizers for emergency cases at Operating Theaters.

CE 2409

www.celitron.com

High-tech in sterilization

MEDIUM STEAM STERILIZERS

Azteca AC Series

The Azteca AC Sterilizer family consists of pre- and postvacuum sterilizers designed with the highest quality for sterilization of wrapped or unwrapped goods such as fabrics, surgical instruments, utensils, and other heat and moisture stable materials. With their capacity from 75 up to 200 liters they cover a large fi eld of applications for hospitals, medical centers and Operating Theaters. The Azteca AC Sterilizers use steam under pressure as the sterilizing agent at temperatures ranging from 121°C to 134°C. The units are standard equipped with internal steam generators to enable faster cycles with a low energy consumption, and eliminate the dependence on an external steam source and its steam quality.

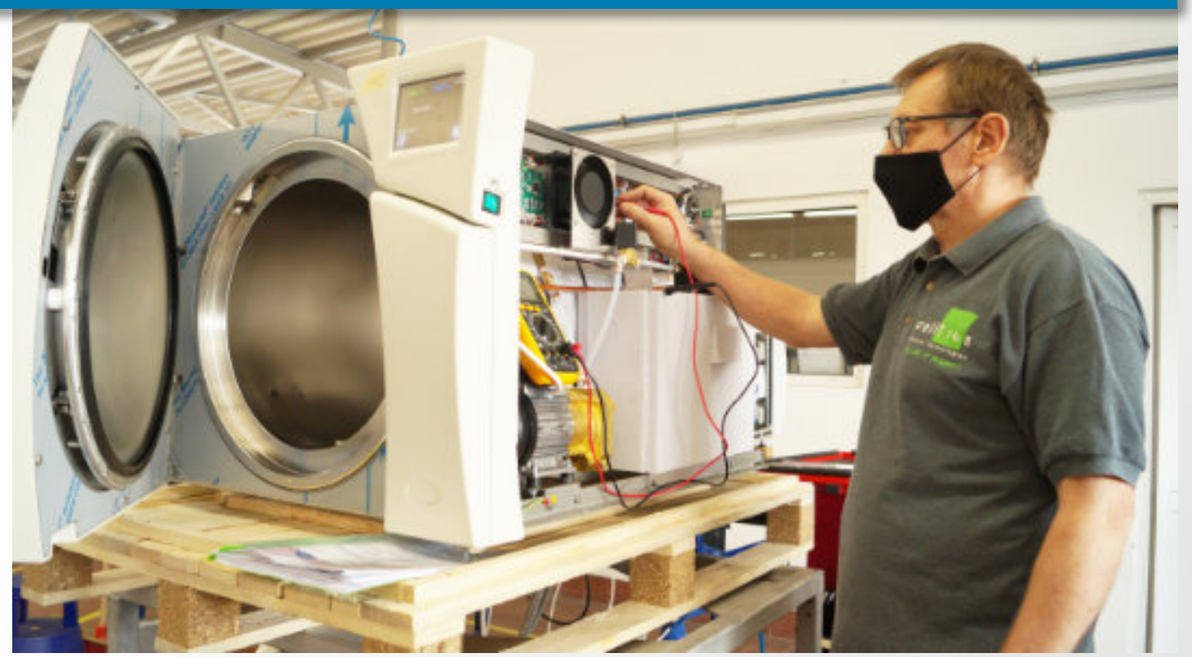
Chamber

The vessel is a heated jacketed round chamber, made of corrosion-resistant stainless steel 316L. The highly efficient, high-quality Hanno-Tech insulation material releases no particles; hence the Azteca AC Sterilizers can be used under clean room conditions. The advanced insulation technology further contributes to the high energy efficiency of the units.

Microprocessor controlled steam sterilizer

A microprocessor based control system; state of the art Freescale technology automatically controls all operations. The system includes a digital colour touch-screen LCD display, communication, self and remote diagnosis and PC connection for external documentation and printing, ensuring a reliable, safe and user-friendly operation. The displayed information is available for users in a variety of languages.

Medium autoclave for dental, veterinary and small clinics



TECHNICAL SPECIFICATIONS

Model Azteca AC Series	AC-450	AC-470	AC-575	AC-5100
Chamber dimensions, Inner Dia. x Depth	400 x 670 mm	400 x 750 mm	500 x 700 mm	500 x 1000 mm
Chamber volume	75 l	90 l	150 l	200 l
External dimensions W x H x D	750 x 630 x 970 mm		850 x 730 x 1050 mm	850 x 730 x 1300 mm
Approximate Weight	160 kg	170 kg	200 kg	240 kg
Power supply*	3 ph. 380-400 V, 50/60 Hz			
Power with steam generator	7 kW	9.9 kW	12 kW	
Available sterilization cycles	Flash 134 °C / Unwrapped 134 °C / Wrapped 134 °C / Prion 134 °C / Porous 121 °C			
Available test cycles	Bowie & Dick test / Vacuum test			
Touch-screen display	LCD 5.7” Color Graphic			
Cabinet	Painted quality steel			

* Adjustable to different voltage systems

Main features

The Azteca AC sterilizers is a pre-and post-vacuum sterilizer designed to cover a large field of applications for hospitals, medical centres and as secondary sterilizer for emergency cases at Operating Theatres.

Using steam under pressure as the sterilizing agent for wrapped or unwrapped goods such as fabrics, surgical instruments, utensils, and other heat and moisture stable materials at temperatures from 121°C to 134°C.

Design and Construction – The Azteca AC sterilizers meets the highest standards requirements for quality, safety and operation. Stainless steel pressure vessels 316 L conforms to the Pressure Equipment Directive (PED). The inner shell, door and jacket are designed for a maximum working pressure of 2.76 bar and full vacuum. The sterilizer's framework is made of stainless steel. The highly efficient, high-quality Hanno-Tech insulation material releases no particles; thus, the Azteca AC sterilizers can be used under clean room conditions.

Chamber – The vessel, with electro polished and steam jacketed chamber, is made of corrosion-resistant stainless steel 316 L, and is thus easy to clean.

Exterior – Combination of painted quality steel cover and plastic for front panel. On request, the machine is available with full stainless steel casing.

Steam generator – Equipped with a built-in steam generator, made of stainless steel 316 L. The large capacity of the heaters enables steam to always be ready for operation, and thus contributes to a very fast cycle.

Vacuum system – Equipped with a Liquid ring vacuum pump, combined with a heat exchanger, and is a pre- and post-vacuum sterilizer.

Safety Devices – Numerous safety features including: a safety valve, thermostat, a temperature sensor, a water detection electrode in the steam generator, pressure sensors, a door locking device and software safety features.

Alarms – Depending on the state of the input and of the installed accessories, the controller is capable of providing an audio alarm, as well as displaying and/or printing several alarms, including: Door Unlock, Temperature/Pressure Error, Low/High Temperature, Low/High Pressure, Low Vacuum and more.

Door locking mechanism – The door system is automatic and based on a ring locking mechanism, driven by a geared electric motor, preventing the opening of the door by a safety pin.

Water system – The sterilizers are equipped with Water Reservoirs: one for the tap water for the liquid ring vacuum pump and one for drain water. Water is circulated in the water pump and converted to saturated steam. The sterilizers are supplied as a stand-alone unit. A Reverse-Osmosis water purification system is available in order to avoid the need to refill the water reservoirs.

Energy saving mode – The sterilizers are equipped with an Energy Saving Mode which is activated when the unit is not used after a certain period of time. This mode reduces power consumption by approximately 12% to 30% and is thus environmental friendly.

Control system / Touch screen panel – A microprocessor based control system, state of the art "Free scale" technology, automatically controls all programs including the sterilization cycle. The system includes a 5.7" digital touch-screen graphic display, communication, self and remote diagnosis and PC connection for external documentation and printing. It ensures a reliable, safe and user-friendly operation.

Printer – The unit supplied with an integrated ink printer (or with thermal printer upon request). Each cycle can be documented by the printer which records the preset and actual parameters of the cycle: the selected cycle, cycle parameters, date, time, temperature, pressure, errors, etc.

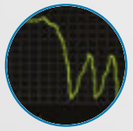
Accesories

Thermal Printer – Each cycle is documented by the integrated printer which records the preset and actual parameters of the cycle: the selected sterilization or test cycle, cycle parameters, date, time, temperature, pressure, errors, etc.

SD card – Sterilization cycles' data can be collected online on a SD Card through an optional SD Card Slot. Collected data can be downloaded into a computer equipped with proprietary PC Software.

Pressure gauge – Analog pressure gauge installed on the front of the sterilizer machine to indicate chamber/jacket/steam generator pressure in addition to the LCD Display.

Reverse osmosis system (water softener / water purifier) – A Reverse Osmosis system shall be used to improve the quality of the water used to generate steam in the electric steam generator and to secure fully automatic operation. The use of mineral-free water will contribute to better performance and longer life of the autoclave's chamber.



Slow exhaust cycle – For sterilizing liquids according to EN285, with natural cooling and an additional PT100 temperature probe.

HMI PC software (Monitoring and Documentation Software) – Powerful PC Windows based software is available for monitoring, logging sterilization cycle parameters, and providing complete control and service over the autoclaves.

Cabinet – Stainless steel standing or rolling cabinet with storage area under the unit.

Chamber plate – To accommodate sterilization baskets or containers inside the chamber and to prevent scratches on the chamber's surface.

Tray holder and trays – Stainless steel tray holder with up to 4 trays.

Stainless steel cover for AC-450 or AC-470: High quality stainless steel cover for all sides of the unit.

Sterilization containers and wire mesh baskets – Aluminum sterile containers and stainless steel, stackable wire mesh baskets are available in different sizes.

After Sales Service

Our Service Department provides product support, parts and repair for our units. Genuine Celitron parts ensure that you continue to receive the maximum performance you expect from your steam sterilizer. At any time, if you experience a problem with the unit, we're ready to help. Contact our service team and get personal help for all your questions.

About us

Celitron is a Hungarian (EU) manufacturing company with R&D focus on sterilization and infectious waste treatment systems. We have an international presence, in over 80 countries worldwide.

Celitron develops and manufactures steam sterilizers (autoclaves) for infection control in dental offices, clinics and hospitals and infectious waste treatment solutions for hospitals.

Our vision is to fulfil the market needs with our autoclaves and integrated sterilizer & shredders, these using only green technology and provide clean and sterile environment.

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WE THINK GREEN!

Who are we?

Celitron is a Hungarian (EU) manufacturing company with R&D focus on sterilization and bio waste treatment systems. We have an international presence, with more than 500 deployed medical waste treatment units and over 5000 deployed steam sterilizers in over 80 countries worldwide.

Celitron Medical Technologies Kft.

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ISO 9001 and ISO 13485 certified company with CE certified products