

celitron

WE THINK GREEN!

LARGE STEAM STERILIZERS

Azteca A Series

- **Easy to use** – one touch operation.
- **Large capacity** – from 110 liters up to 12 STUs.
- **Highly customizable** – with a wide range of accessories and options.
- **Fast and economical** – sterilization cycles from 21 minutes with advanced water and energy saving systems.
- **Best solution** – for hospital CSSDs, pharmaceutical and biotechnological applications.



Azteca A-666

CE 2409

High-tech in sterilization

LARGE STEAM STERILIZERS

Azteca A Series



The Azteca A large steam sterilizer family consists of fully automatic pre- and post-vacuum sterilizers, autoclaves, designed with the highest quality to cover a large field of applications for hospital central processing departments, as well as pharmaceutical and bio-technological industries.

These models have been sold worldwide in Europe, the Middle East, America, Latin-America, Africa and Asia, and are highly recommended by doctors, sterile processing technicians and professionals.

All components used have been selected with proper attention, meeting the highest quality standards from known leading companies with the most advanced technologies around the world.

Construction

The construction of these autoclaves is modern, ensuring reliable operation, incorporating high-tech features and behind its success is a team of multi-disciplinary engineers, who developed sterilization equipment on OEM basis for leading manufacturers around the world, for more than 20 years.

Chamber

The vessel is a double full jacketed square chamber, made of corrosion resistant stainless steel 316L, which conforms to the Pressure Equipment Directive (PED). The autoclave's framework and piping are also made of stainless steel. The highly efficient, high quality Hanno-Tech insulation material releases no particles; hence the Azteca A steam sterilizers can be used under clean room conditions. The advanced insulation technology further contributes to the high energy efficiency of the units.

Doors

The autoclave can be supplied with either 1 or 2 pneumatically operated vertical sliding door(s). The automatic vertical sliding door's movement stops immediately if it is obstructed and goes back to the opened position. Special safety features prevent the door from opening when the chamber is pressurized or when the temperature is high. In double door units both doors cannot be opened at the same time, and clean side door only opens, after a sterilization cycle has been successfully completed.

Internal steam generator

The Azteca A steam sterilizers use 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. The autoclaves can be equipped with internal steam generator to enable faster cycles with efficient energy consumption, and to eliminate the dependence on an external steam source and its steam quality.

The air removal is done by a powerful vacuum system, using a liquid ring vacuum pump and a condenser, heat exchanger.

All autoclaves are supplied with a water saving system as standard to reduce the amount of water during the sterilization cycles.

Certified

Through the numerous safety features, the Azteca A steam sterilizers meet the highest standards and requirements for quality, safety and operation (EN 285 – Large Steam Sterilizers standard; Pressure Equipment Directive (PED); Medical Device Directive MDD 93/42/EEC; EN 60601-1, EN 61010-1 and EN 61326 safety standards, etc. and CE approved).

Microprocessor controlled steam sterilizer

A microprocessor based control system; state of the art Freescale technology automatically controls all operations. The system includes a digital color 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.

The cycles

Azteca A Series offer 7 preset cycles, 5 sterilization cycles and 2 test cycles to assure a proper sterility level. Up to totally 20 cycles can be custom designed according to the users' needs.

The design of all internal and external components together with the self-diagnostic system ensure easy maintenance, resulting in reliable service and performance and satisfied operators.

Solution for CSSD's

Within the health-care services, sterilization of medical supplies is an essential issue in the battle against the advance of many infectious diseases. In order to improve the quality of this supply, international standards have been developed, which specify the requirements for the equipment, and procedures in the sterilization departments in health care facilities. Celitron's Azteca A autoclaves provide the best solution for hospital's central sterile supply departments (CSSD), clinics, as well as pharmaceutical and bio-technological industries.

With a range of accessories these autoclaves can be easily customized according to the customer's requirements.

Advanced Bio Waste Treatment & Sterilization Solutions



LARGE STEAM STERILIZERS

Azteca A Series

TECHNICAL SPECIFICATIONS



Model Azteca A Series	A-446	A-456	A-501	A-666	A-669	A-6612	A-6615	A-6618
Inner Chamber dimensions* W x H x D	406 x 406 x 670 mm	500 x 500 x 735 mm	500 x 500 x 1035 mm	660 x 660 x 740 mm	660 x 660 x 1035 mm	660 x 660 x 1300 mm	660 x 660 x 1590 mm	660 x 660 x 2035 mm
Chamber volume*	110 l	180 l	255 l	320 l (4 STU)	450 l (6 STU)	570 l (8 STU)	690 l (10 STU)	880 l (12 STU)
External dimensions W x H x D	660 x 1900 x 910 mm	970 x 1810 x 1005 mm	970 x 1810 x 1305 mm	1130 x 1960 x 1010 mm	1130 x 1960 x 1305 mm	1130 x 1960 x 1570 mm	1130 x 1960 x 1860 mm	1130 x 1960 x 2306 mm
Approximate Weight	350 kg	600 kg	750 kg	850 kg	1000 kg	1150 kg	1250 kg	1800 kg
Power supply**	3 ph. 380-400 V, 50/60 Hz							
Power without steam generator	2 kW							
Power of optional steam generator	12 kW	18 kW	27 kW	27 kW	36 kW	54 kW	63 kW	72 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 - (10" optional)							
Cabinet	Stainless steel							
Door(s) number	1	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
Door(s) type	Automatic vertical sliding door(s)							

* Dimensions and volume based on units with two doors
** Adjustable to different voltage systems

Accessories



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



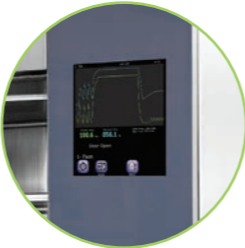
SD card – Sterilization cycles’ data can be collected online on a SD Card through an optional SD Card Slot. Collected data can be downloaded into a computer equipped with proprietary PC Software.



Steam generator – The Azteca A steam sterilizers can be equipped with a built-in steam generator, when central steam source is not available. The steam generator is made of stainless steel. The large capacity of the heaters enables steam to always be ready for operation, and thus contributes to a very fast cycle.



Biohazard cycle – This option is used to verify that no unsterilized materials will be taken out of the autoclave. In order to implement this verification, the steam sterilizer is equipped with a special bio-hazard door safety system and other bio-hazard features.



10" LCD display – The Azteca A steam sterilizers can be supplied with 10" color graphic touch-screen display.



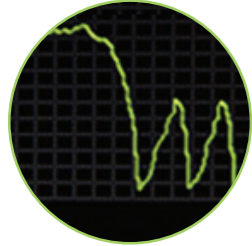
Reverse osmosis system (water softener / water purifier)– A Reverse Osmosis system shall be used to improve the quality of the water used to generate steam in the electric steam generator and to secure fully automatic operation. The use of mineral-free water will contribute to better performance and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



Silent air compressor – An electrically operated air compressor can be supplied if there is a lack of available compressed air. The air is used to operate the unit's ball valves and the door(s).



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.



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



Side panels – The Azteca A steam sterilizers can be supplied as a stand-alone unit with stainless steel side panels.



Loading/unloading shelf rack – Stainless steel shelf rack for placing instruments inside the autoclave's chamber.



Loading/unloading cart – Stainless steel loading/unloading cart with locking system and braking wheels.



Sterilization containers and wire mesh baskets – Aluminum sterilization 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 bio waste treatment systems. We have an international presence, in over 70 countries worldwide.

Celitron develops and manufactures biological infectious waste treatment solutions for medical, pharmaceutical and the agriculture industry and steam sterilizers, autoclaves for infection control and decontamination procedures in dental offices, clinics and hospitals.

Celitron designs solutions, fulfilling the market's needs in accordance with all medical sterilization and machinery directives. We apply our technology and experience into creating solutions that protect the environment.

Our vision is to fulfill the market needs with turn-key solutions using only green technology.



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