

Sterilization Systems



General Catalogue

CISA has been manufacturing and selling sterilization systems for over 60 years for both hospitals and industrial application, covering all sterilization needs.

CISA is an Industrial Group which manufactures industrial machinery and integrated technological production systems with factories in different continents and its headquarters in Italy. CISA offers capillary distribution and technical assistance both in Italy and overseas that allows it to guarantee constant presence and a complete service in all the countries in which it operates.

Coordination of distributors and technical service centres are handled through the CISA branches, companies and scientific offices located in Joinville (Brasil) for Brasil, in Amman (Jordan) for Middle East, in Miami (Usa) for North and Latin America (with offices in Colombia and Venezuela), in Tunis (Tunisia) for Africa, in Singapore for Asia, in New Delhi for India, in Shimkent (Kazakhstan) for Central Asia and Vireux Molhain for France. Besides CISA has special setups in Russia, Germany and UK.

CISA headquarters for the rest of the world is in Pomezia (Rome).

The entire production is made in the plants of Joinville for the South American market and in Pomezia for the rest of the world.



CISA offers a complete, up-to-date service, designed and planned for a field of application that is in continuous evolution: that of machines, systems and technology for scrubbing, disinfecting and sterilizing.

Close and continuous collaboration with university research laboratories enables the company to incorporate the latest and most advanced theories on germ elimination in its machinery and equipment.

Thanks to the organization of its technical department, with operating units for research & development and engineering, CISA is able to develop new products, test them in its own laboratory and fine-tune their operation before proposing them to the market.

Its continuous investments in research and development have enabled CISA to achieve success through innovative solutions in design, construction, installation of its products and process control technologies, for unrivalled quality and reliability.



Design Engineer



The R&D office is directly on the production floor for better control and interaction with the manufacturing process.



High capacity short delivery for standard equipment

CISA operates in a very important field that is in continuous development. For this reason it has concentrated on a line of products that include: infection control solutions, machinery for disinfecting, machinery for sterilization and software systems for management and control.

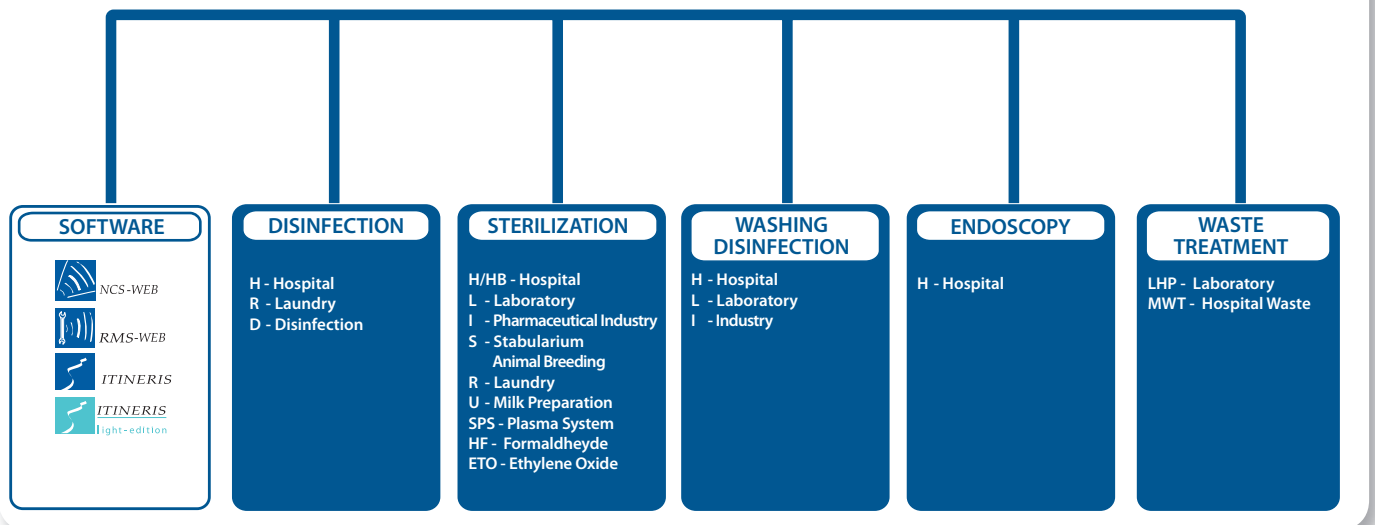
All the products in the different lines are “made in CISA” from design to manufacture.

The operating technology used: steam, plasma, peracetic acid, superheated water, formaldehyde, ethylene oxide, hot air, and air-steam mixtures, to cover all the market needs.

All the equipment can be built to function with steam coming directly from the mains supply line or electrically by means of heating elements, or with steam produced by a heat exchanger supplied with industrial steam or a combination of both Plasma generation technology, unique, with safe and powerful generators.

CISA's leadership position on the market enables it to produce enough volume to justify mass production of every model. The repetition of the operations of assembly and the industrialization of the production process also ensure a favorable cost/benefit ratio.

Range of Production



Perfect cleaning combined with a high level of disinfection ensure the effectiveness of a process of sterilization in order to eliminate the risks deriving from the use of medical devices on the human body.

Every machine produced by CISA is designed with the same philosophy: ease of use and maintenance, safety and reliability.

To ensure a constant level of quality the company has developed a quality control system based on all the experience acquired in its many years of activity in Italy and abroad.

CISA is certified in accordance to UNI EN ISO 9001:2000 and UNI EN ISO 13485:2004 quality system as well as the "CE" certificate of conformity based on the Directive for Medical Devices n° 93/42/CEE issued by TUV Sud.

CISA also holds the "CE" certificate for the construction of pressure vessels according to Directive n° 97/23/CEE with the PED procedure, also issued by TUV Italy.

All CISA products are constructed and certifiable in conformity with the prescriptions of the European standards in use. The equipment designed for the pharmaceutical sector complies with the requisites of the applicable European Directives.



Certificates CISA



Certificates CISA Brasile



Automatic welding plant

The high technological content of CISA products is the direct result of research that focuses in the machine construction features, through the selection of materials, components and technical solutions that guarantee safe operation in every stage of the cycle and excellent product life.

All the parts used for the construction of the equipment are readily available all over the world. CISA uses only components produced by multinational companies with a worldwide network of distribution and technical service.

The operating cycles and production processes are designed in such a way as to make the mechanical parts even more resistant and long-lasting, and to guarantee absolute reliability in any situation.

The use of special steel with titanium and extra thickness is one of the features of the CISA design to obtain a level of resistance that is redundant with respect to normal use.



Robotic welding zone



Mechanical working with numerical controls

CISA machines are designed in accordance with the most sophisticated methods of safety control, taking into account, risk analysis, the type of use, the class of equipment (IIa) and thus of the necessary operator protection, the product and the environment.

For every part, according to the principle of redundancy and thus of safety, an extra back-up is always available and can intervene automatically in case of malfunction of the first.

Every unit is fully inspected by programmable logic systems that serve to manage the cycles, control the parameters and verify the safety of the process.



Validation process



Stainless steel internal piping

Two Programmable Logic Controls dialogue to ensure the maximum safety of the process.

While one PLC controls machine operations, the second performs a constant control function with inspection and registration.

This makes it possible to confirm the regular performance of the processing cycle, freeing the operator of the risk of individual evaluation.

All equipment is provided with a system of self diagnostics and routine maintenance monitoring; they are designed for remote maintenance, remote supervision and a management system for the sterilized materials.

In addition, the devices have been tested for electromagnetic compatibility and are equipped with network filters.

In the design of the mechanical parts, special expedients have been developed to ensure maximum hygiene, facilitate the cleaning of surfaces, pipes made easily drainable and prevent the formation of deposits.

The choice of commercial components and their arrangement inside the machinery have also been planned with the same criteria.



Electrical board with protection

All CISA machines are designed with particular attention to energy savings, all the insulating materials are therefore of the finest quality and of extra thickness.

Specific technical solutions make it possible to reduce water and power consumption during the performance of the processing cycles.

Every unit that is on but not actively engaged in a processing cycle is automatically switched over to stand-by so as to reduce consumption considerably.

The machines can be automated to optimize work shifts. Switching on, warm-up, test runs and switching off are all operations that can be performed automatically.

Even the operations of loading and unloading equipment can be automated in order to reduce inactive machine time.



Steam generator energy saving



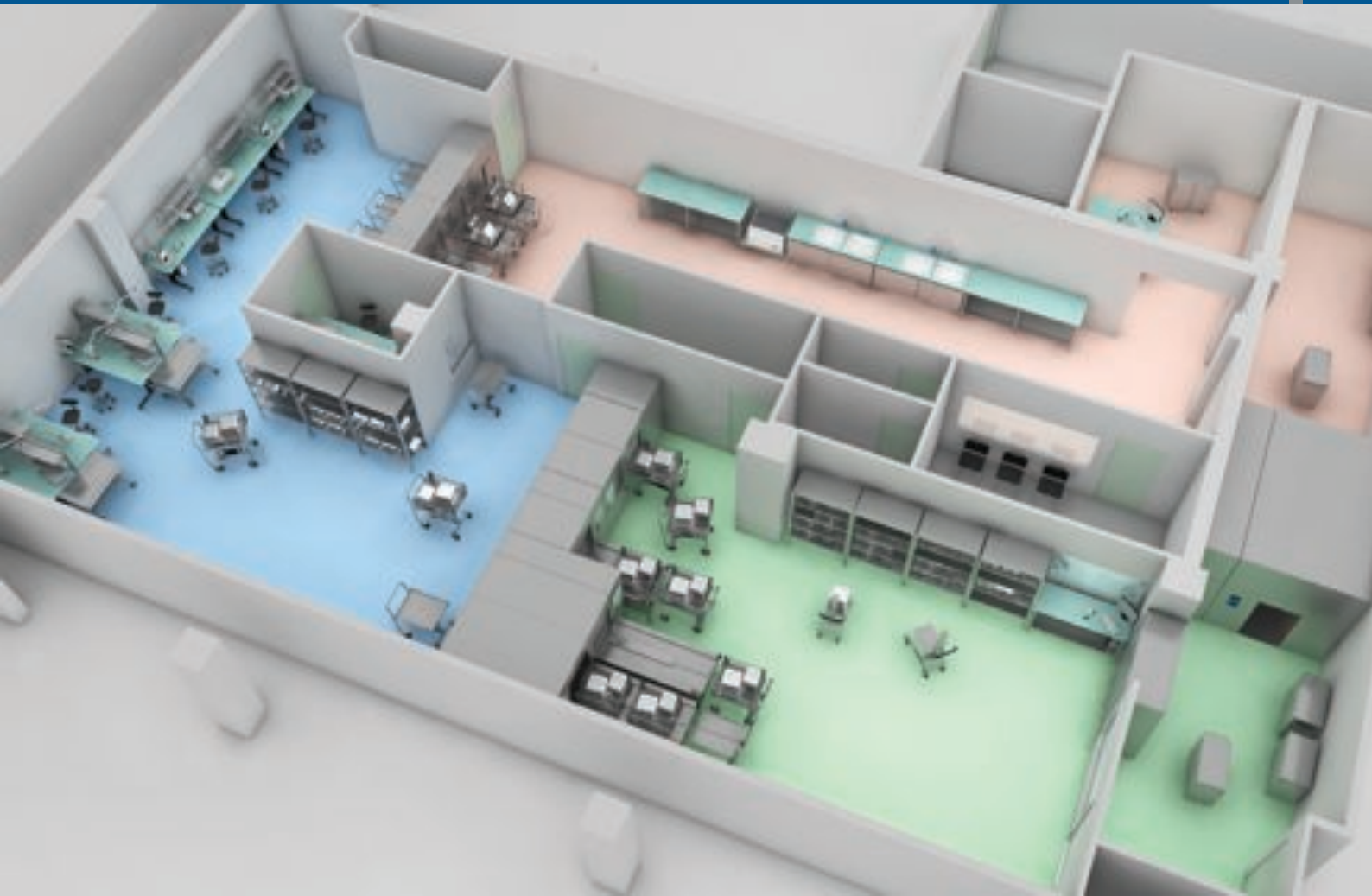
Optimum design and low maintenance requirements



*Automatic Steam Sterilizer
load/unload system*



*Automatic Washing-Machine
load/unload system*



PLANNING AND REALIZATION OF CENTRAL STERILIZATION

The problem of contamination in hospitals is important and complex. CISA offers complete design of Central Sterilization Supply Department with work flow, equipment and accessories using its own "system" with guidelines developed to reduce the microbe load progressively and lower the risk of contamination up to final sterilization.

CISA sterilization centers are custom designed accounting for the dimensions and configuration of the hospital: number of beds, type of specializations, number of operating rooms, number of operations per day, number of intensive care beds and selection of the quantities of materials in stock and consumables.

CISA supplies furnitures and accessories of the equipments to complete the CSSD following the "CISA system" continuously in evolution and according the collaboration with the sterilization world.

The "CISA System" is versatile and able to interact with many types of packing and management of the sterile supplies. The automation can increase the productivity and the efficiency of the CSSD. The materials are shared in two main furnishing lines with different qualities; infact it is possible to choose the "Stainless steel Line" and the "Corian Line".



Dirty corridor collecting from operating theatre



Material transfer



Automatic or manual washing and disinfection for trolleys and containers



Pre washing



Ultrasonics wave cleaning



Automatic washing and disinfecting machines loading side



Loading



Pass trough for internal racks return back



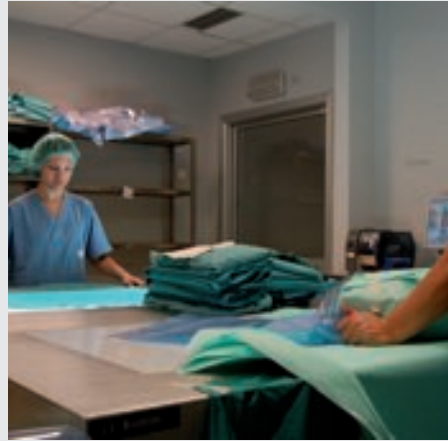
Automatic washing and disinfecting machines unloading side



Surgical instruments, clean zone



Traceability bar coding



Textiles inspection and packing zone



Loading



Pass - through



Sterilization loading side



Touch screen control interface



Sterilization unloading side



In the unloading side



Stocking of sterile material



Pass through cupboard for sterile material redelivery

CORIAN LINE FURNITURE



Pre washing with accessories



Manual washing with accessories



Preparing material for the washing machine



Loading to washing machine



Washing machines loading view



Washing machines unloading view



Autoclaves view from the unloading side



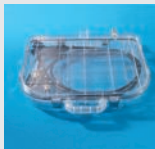
Automatic opening of the door



Automatic unloading of the material



Low temperature Plasma sterilization in CSSD beside steam sterilizer



Endoscope store case



Endoscope reprocessing



Endoscope storage



Touch screen for control



Endoscope transport trolley

CISA has an extensive network for sales and after-sales service, in the countries in which it operates, and offers a number of value-added services to satisfy the expectations of its clients, with an unrivalled level of quality.

These services are constantly improved and optimized through customer feedback.

A team of highly specialized experts of proven experience operate day by day with professional skill and fast intervention to maintain equipment in perfect working conditions in conformity with the requirements in effect set by the European Union.

The attendance design pre and post-sale, the customers service, the validation of equipment and the correspondence to the norms of existing systems are the main CISA services.

The computer science innovation of the organization, the constant training for the staff, the quality of the warehouses for the replacement parts and their easy availability on the market are the base in order to guarantee one immediate answer and to reduce lessened the inefficiency.



Customer service



Technical assistance office

Mobile service unit





AUTOCLAVE SERIES V			
Model	Chamber Dim. (Ø X P mm)	Chamber Volume	External Dimensions (WxHxD mm)
4060	400x870	77	1200x1196x752
4070	400 x870	90	1200x1196x752
5070	500 x 920	140	1200x1196x752

Version: H - Hospital, LS - Laboratory Stabularium

AUTOCLAVE SERIES 200			
Model	Chamber Dim. (Ø X P mm)	Chamber Volume	External Dimensions (WxHxD mm)
250	266x455	25	590 x 440 x 755
260	266x640	35	590 x 440 x 930
290	396x615	75	805 x 525 x 940

• 1 Door: Version: H - Hospital



AUTOCLAVE SERIES 3000 so			
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)
3270	320x320x700	71	805 x 1500 x 995
3290	320x320x1000	98	805x1500x1295

• 1 - 2 Doors - Version: H - Hospital, HF - Formaldehyde, LS - Laboratory Stabularium, LHP - High Pathogen Material, AZ - Aquazero technology

AUTOCLAVE SERIES 3000 HB				
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)	S.U.
3270-1p	320x320x720	73	613x1500x1096	1
3270-2p	320x320x720		613x1500x1026	
3290-1p	320x320x1000	101	613x1500x1376	1 1/2
3290 2p	320x320x1000		613x1500x1306	

• 1 - 2 Manual/automatic doors - Version: HB - Hospital Based



AUTOCLAVE SERIES 400			
Model	Chamber Dim. (Ø X P mm)	Chamber Volume	External Dimensions (WxHxD mm)
4070	440x700	106	890x1850x890
4010	440x1000	152	890x1850x1190
4012	440x1250	190	890x1850x1440

• 1-2 Doors - Version: H - Hospital, LS - Laboratory Stabularium, LHP - High Pathogen Material

AUTOCLAVE SERIES 3600			
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)
3670	330x660x700	151	890x1850x1026
3690	330x660x1000	216	890x1850x1313

• 1 - 2 Doors - Version: H - Hospital, HF - Formaldehyde, LS - Laboratory Stabularium, LHP - High Pathogen Material, AZ - Aquazero technology





AUTOCLAVE SERIES 420			
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)
4270	450x450x700	141	890x1850x890
4210	450x450x1000	201	890x1850x1190
4212	450x450x1250	251	890x1850x1440

• 1 - 2 Doors - Version: H - Hospital, HF - Formaldehyde, ETO - Ethylene Oxide
 LS - Laboratory Stabularium, LHP - High Pathogen Material,
 AZ - Aquazero technology

AUTOCLAVE SERIES 420-HB				
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)	S.U.
4270-1p	450x450x720	144	743x1850x1096	2
4270-2p	450x450x720		743x1850x1026	
4210-1p	450x450x1000	201	743x1850x1376	3
4210-2p	450x450x1000		743x1850x1306	
4212-1p	450x450x1280	257	743x1850x1656	4
4212-2p	450x450x1280		743x1850x1586	

• 1 - 2 Manual/automatic doors - Version: HB - Hospital Based



AUTOCLAVE SERIES 640sv			
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)
6464	660x660x720	313	1424x1850x1026
6410	660x660x1000	434	1424x1850x1311
6412	660x660x1280	556	1424x1850x1586
6415	660x660x1600	695	1424x1850x1911
6420	660x660x2000	868	1424x1850x2311

• 1 - 2 Doors Version: H - Hospital, HF - Formaldehyde, ETO - Ethylene Oxide,
 LS - Laboratory Stabularium, LHP - High Pathogen Material,
 AZ - Aquazero technology



AUTOCLAVE SERIES 640-HB				
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)	S.U.
6464-1p	664x664x720	316	903x1850x1096	4
6464-2p	664x664x720		903x1850x1026	
6410-1p	664x664x1000	439	903x1850x1376	6
6410-2p	664x664x1000		903x1850x1306	
6412-1p	664x664x1280	562	903x1850x1656	8
6412-2p	664x664x1280		903x1850x1586	

• 1 - 2 Manual/automatic doors - Version: HB - Hospital Based

AUTOCLAVE SERIES 640so			
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)
6464	660x660x720	313	1700x1850x1026
6410	660x660x1000	434	1700x1850x1311
6412	660x660x1280	556	1700x1850x1586
6415	660x660x1600	695	1700x1850x1911
6420	660x660x2000	868	1700x1850x2311

• 1 - 2 Doors - Version: H - Hospital, HF - Formaldheyde, ETO - Ethylene Oxide
LS - Laboratory Stabularium, LHP - High Pathogen Material



AUTOCLAVE SERIES 1000			
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)
1170	660x1120x700	517	2000x1900x1148
1110	660x1120x1000	738	2000x1900x1448
1113	660x1120x1300	959	2000x1900x1748
1115	660x1120x1600	1181	2000x1900x2048
1120	660x1120x2000	1476	2000x1900x2448
1125	660x1120x2500	1844	2000x1900x2948

• 1 - 2 Doors - Version: H - Hospital, ETO - Ethylene Oxide,
LS - Laboratory Stabularium LHP - High Pathogen Material, D - Disinfection,
AZ - Aquazero technology



AUTOCLAVE SERIES 1400			
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)
1470	660x1490x700	688	2000x2300x1148
1410	660x1490x1000	982	2000x2300x1448
1413	660x1490x1300	1277	2000x2300x1748
1415	660x1490x1600	1572	2000x2300x2048
1420	660x1490x2000	1964	2000x2300x2448
1425	660x1490x2500	2455	2000x2300x2948

• 1 - 2 Doors - Version: H - Hospital, ETO - Ethylene Oxide, LS - Laboratory Stabularium, LHP - High Pathogen Material, D - Disinfection, AZ - Aquazero technology

AUTOCLAVE SERIES 1350			
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)
1315	1050x1350x1600	2268	2800x2100x2048
1320	1050x1350x2000	2835	2800x2100x2448
1325	1050x1350x2500	3544	2800x2100x2948

• 1 - 2 Doors • Special execution under request - Version: H - Hospital, ETO - Ethylene Oxide, LS - Laboratory Stabularium, LHP - High Pathogen Material, D - Disinfection, AZ - Aquazero technology



AUTOCLAVE SERIES 2000			
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)
2015	1050x2000x1600	3358	2800x2750x2048
2020	1050x2000x2000	4198	2800x2750x2448
2025	1050x2000x2500	5247	2800x2750x2948

• 1 - 2 Doors • Special execution under request - Version: H - Hospital, ETO - Ethylene Oxide, LS - Laboratory Stabularium, LHP - High Pathogen Material, D - Disinfection, AZ - Aquazero technology

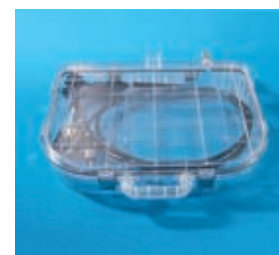
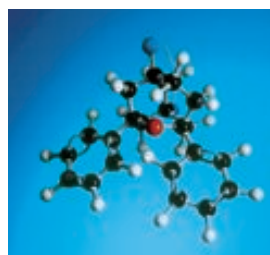


AUTOCLAVE SERIES SPS - Sterilization Plasma System			
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)
6464	660x660x720	313	1730x1850x1086
4270	450x450x700	141	890x1850x980

• 1 - 2 Doors - Version: SPS - Hospital Plasma

SERIES ERS - Endoscope Reprocessing System		
Model	Number of Store cases	External Dimensions (WxHxD mm)
ERS1	1	1100x1700x750
ERS2	2	1100x1700x750
ESS	6	1100x1710 x750

Version: H - Hospital Endoscopy





Washing - Disinfection Machine Series M			
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)
84	550x600x620	205	680x2000x795
104	550x660x620	225	680x2000x795

• 1-2 Doors - Version: H - Hospital, LS - Laboratory Stabularium

Washing - Disinfection Machine Series K			
Model	Chamber Dim. (WxHxD mm)	Chamber Volume	External Dimensions (WxHxD mm)
105	630x680x640	275	1100x2000x815
155	630x680x840	360	1100x2000x1015

• 1-2 Doors - Version: H - Hospital, L - Laboratory



Washing - Disinfection Machine Series W		
Model	Chamber Dim. (WxHxD mm)	External Dimensions (WxHxD mm)
WT	900x1450x1600	2300x2000x1850
WCO	900x1450x1600	2300x2000x1850
WOT	900x1450x2500	2300x2000x2750
WB	1050x1450x2500	2600x2500x2750
WBB	1050x1800x2500	2600x2500x2750

• 1-2 Doors - Version: WT - Trolley Washing Disinfection
 WCO - Containers Washing Disinfection
 WB - Bed Frames Washing Disinfection
 WOT - Operating Tables Washing Disinfection





AQUAZERO

*The new technology for steam sterilization:
low water consumption, energy saving, cost saving and high quality process*



All CISA models are available with Aquazero technology

Aquazero technology

Aquazero is a vacuum system technology with powerful Pre & Post Vacuum without water dependance for the cooling system.

Aquazero is a steam sterilizer with normal steam sterilization functionality with the difference of having a patented closed vacuum system that can reach the required vacuum values and even better vacuum performance compared to other vacuum systems that are totally dependant on water.

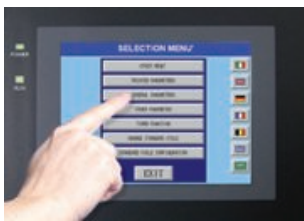
Aquazero means no water vacuum system

The Vacuum used with steam sterilizers for air removal and for post sterilization drying is achieved using a more substantial vacuum system capable of reaching 99% of air removal and higher vacuum values for drying that make cycle times shorter.

The Vacuum doesn't need water for its functionality or for cooling and the dependence on water is null or Zero.



Aquazero panel



Touch Screen language selection



Touch Screen insert Operators Code



Touch Screen for alarms history



- Water saving system
- 99% air removal
- Perfect drying
- 25% less cycle time
- High speed sterilizer
- Energy saving system
- Cost saving sterilizer
- Less operating running cost
- Lower installation and maintenance costs
- Quality of sterilization not dependant on water temperature
- No water hardness problem
- Environmentally friendly system
- Smooth and hygenic control panel
- Same application in higher quality and less cost

Aquazero upgrade kits for old sterilizers are available

The hazard of disposing of special hospital waste has been attracting more and more attention.

For this reason, CISA has carried out a research and development programme ending in the creation of a "unique plant" that achieves the inactivation of the waste and the reduction of the waste volumes through shredding and compaction.

Furthermore, the automation level of this system reduces the handling of the waste to the minimum, therefore reducing the risks related to it.

The system performs a process of sterilization of the waste with the power of steam, the earliest, safest and most economical sterilization technology; this process, thanks to innovative solutions in the machine plants and a new-concept software, is able to guarantee that the process is carried out in complete safety for the operators, the absolute annihilation of the microbial charges, the repeatability of the process and, most important, avoiding any kind of environmental pollution.

This system is available in several versions depending on the production capacity and the needs of the institute: the range changes from 70lt./h up to 5000lt./h and more.

The shredding facility is customized to act during sterilization, pre or post sterilization or as an intermediate process between two sterilization phases.



Different sizes are available to meet hospital needs (Kg/h)

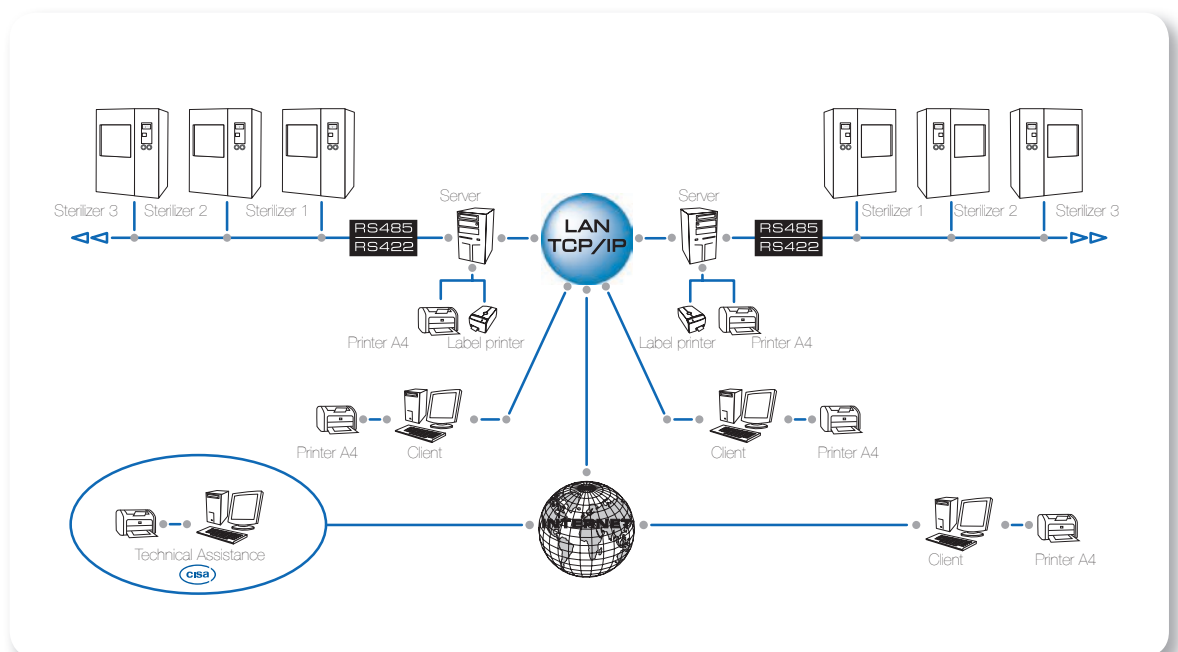


The **NCS-WEB** supervision system makes it possible to control all the CISA equipment installed in hospitals or medical facilities and makes it possible to centralize information by means of a network.

The NCS-WEB supervision system provides the following functions: display of the status of the devices with indication of parameters of the cycle in progress, archiving of cycle data, evaluation of cycles with parametric results, cycle search, printing of certificates with the main data of cycle and diagram, display of the temperature and pressure curves of the cycle and comparison with theoretical parameters, numerical display of main parameters and cycle data, graphic display of the cycle in real time, display of information sheets on the autoclaves in real time, printing of labels, management of archiving time, configuration of network connections, configuration of devices connected with identification data and management of user profiles for different networks.

The **RMS-WEB** maintenance system permits remote control of the devices and makes it possible to check their working conditions and assist the repair technician or modify the management software in real time.

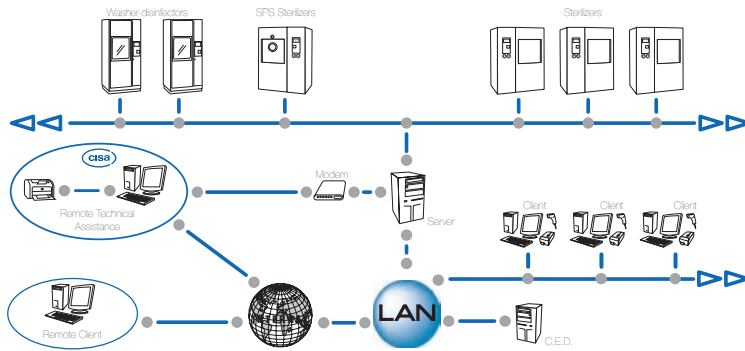
Black Box is the device that can be installed in the sterilizer as communication distribution device and as data storage system cycle (accessible and retrievable using different methods, inside and outside the sterilizer).





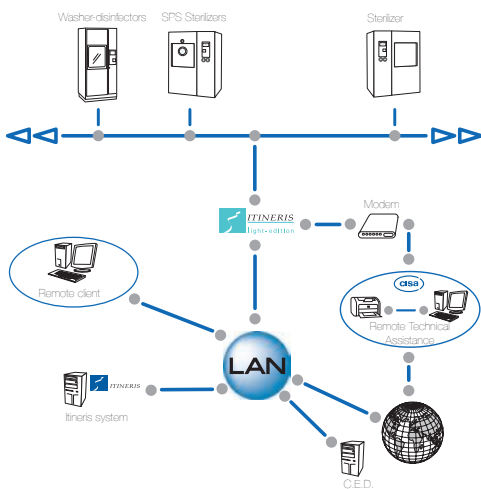
Itineris is a data processing system that manages all the activities in the Central Sterilization Department. With this system the central of sterilization obtains a high standardization level, quality, safety, productivity thanks to the operating introduction of methodologies quite defined and to be support and control of the activity aside the *Itineris* system.

- **Traceability of the sterilized material** - relevant informations to date/now and the operator who verifies out every individual activity besides the information on the result of the sterilization cycle (plasma and steam sterilizers to interfacing computer systems).
- **Supporting to ISO certification** - The *Itineris* system represents a concrete support to the operating protocols necessary to achieve a ISO certification.
- **Supporting to the administration management** - The *Itineris* system agrees to optimize the administration management, beyond that productive, in a central of sterilization.
- **Safety and Reliability** - The operating presence of standard procedures guarantees a productive trial more secure for the operator (less possibility of mistakes) and for the patient (user of the product in the central of sterilization).



Itineris architecture

The *Itineris* system is based on an Client-Server architecture. The Server subsystem cares about the data recording, the communication with the subsystem Clients and about the interfacing with external devices (bar-code readers, sterilization units etc.). The Client subsystem cares about all the operativity of the system.



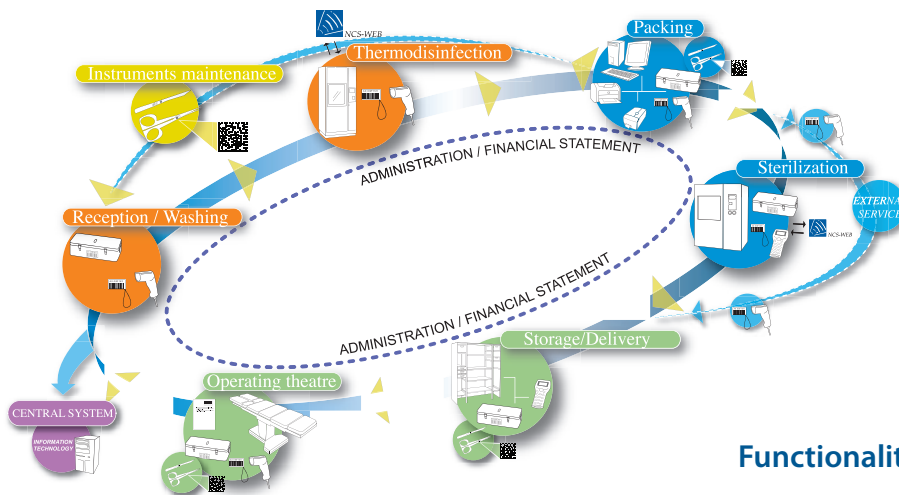
Itineris-LE architecture

The *Itineris Light System* presents a lonely work station deputy to the management function interfacing with the external devices (washers, sterilizers etc.), of database and the execution management of the procedures from the operator



The *Itineris* and *Itineris-LE* system permit the traceability for each single surgical instruments.



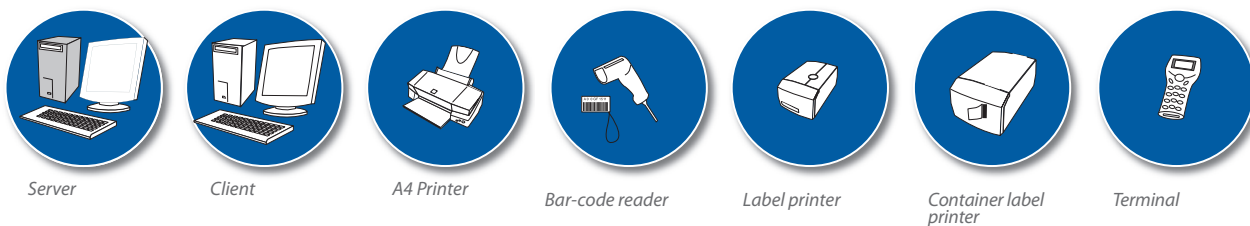


Functionalities of Itineris

- **Packing:** Creation of Kit of container/packed/textile, with printing of the labels with its identification and the check-list for the operating room.
- **Sterilization:** Activity of loading and unloading of the sterilizers (autoclaves, plasma sterilizers, etc.) Management of the lot codes and ordinary maintenance of the validity of the sterilized product, testing of the sterilization cycles
- **Storing and Delivery:** Management and monitoring of the storage rooms, in the central of sterilization and the operating rooms. Stock in trade activities, material lists in expiration/expired. Management of the delivery.
- **Operating room:** Management of the operating activities with the recording of the used materials
- **Reception/Washing:** Receiving activity of used materials coming from the operating departments
- **Instruments maintenance:** delivery (with relevant labeling), withdrawing, researching and consulting of the instruments destined to the maintenance.
- **Thermodisinfection:** Management of the washing activities; loading, unloading and testing of the thermodisinfectors

Itineris Hardware

The used hardware for the Itineris system and Itineris Light is chose and selected from the informatic market basing a quality criteria.



Endo Itineris for Endoscopes

Endo Itineris-Viewer is the computer system to support and complete the Cisa "Endoscope Reprocessing and Storing System" machines (ERS/ESS). Although the system has an high technology level it is a very user friendly product, so it can be used by staff without any computer knowledge, providing every information about the reprocessing cycle, such as date/time, operator and activities of each endoscope. Endo Itineris-Viewer is the system that increases the security level for the patient in the endoscope department.



Feel the innovation

CISA GROUP of companies & offices

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