

Medical sharps waste disposal with the Integrated Sterilizer and Shredder

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ON-SITE SOLUTION FOR HAZARDOUS MEDICAL WASTE DISPOSAL
WITH THE INTEGRATED STERILIZER & SHREDDER (ISS)



Celitron's medical hazardous waste solution, the Integrated Sterilizer & Shredder (ISS), is a steam sterilizer with an integrated shredder, designed for on-site conversion of biological infectious medical waste in hospitals and clinics, complying the EU and WHO recommendations.

The Integrated Sterilizer and Shredder line contains models with 25, 150 and 560-liter capacity, suitable for dialysis centers, laboratories, clinics and hospitals. These health-care facilities with our eco-friendly non-incineration technology are able to reduce the cost on the biomedical waste disposal, while minimizing the risk of cross-contamination as the entire process is done within one single vessel.

400+ medical waste treatment units sold worldwide, to 40+ countries in Europe, the Middle East, Latin-America, Africa and Asia. Operators have received these models positively, reporting that they are simpler, more convenient and significantly cheaper to use. Celitron's clinical waste disposal units are the best solution.



CONTINUOUS OPERATION.
560 KG WASTE CAN BE DISPOSED IN 8 HOURS.





Average processable
waste

5 - 150kg / h



Easy to Operate

No need for special
technician
qualification.



Environmentally
Sound

Shredded waste is
reduced to as little as
1/5 its original
volume, without
emitting harmful
substances.



Cost-effective

Inexpensive operation
and maintenance.



Totally Safe

Automatic locking
door prohibit
unauthorized
interruption.



Easily and Quickly
Installed

Easy to adapt and
integrate into the
hospital's waste
management system.

Autoclave with a capacity greater than or equal to 200 liters with built-in shredder	150 liter
Sterilization and crushing of hazardous medical waste (plastic, glass, rubber, textiles, syringes).	yes
Interior construction, sterilization chamber, steam jacket, AISI 316L stainless steel generator	yes
Exterior construction, housing, AISI 304 stainless steel sides	side panels are epoxy coated
Automatic disconnection at low water level, overheating safety, overpressure.	yes
The door must be designed with a safety system to prevent injury to the user	yes
Sterilization procedure: with internal steam generator	yes
Water level monitoring system in the generator	yes
Internal heaters with separate control and safety in case of short circuit	yes
Equipped with integrated steam generator water pump	yes
Steam cooler for the drainage system	yes
Pressure equalization in the sterilization chamber provided by HEPA filter	yes
The door remains locked until the end of the sterilization process is completed	yes
Acoustic, visual alarms	yes
Alarms: power failure, low temperature, sterilization cycle failure	5
Preset sterilization modes ≥ 3 programs	yes
The device must be equipped with software, electrical and mechanical safety protection in case of failure.	yes
Romanian, Russian or English interface and menu language	yes
The device must be equipped with an emergency stop button on the front panel	yes
Outer surface should not heat up	yes
Thermal printer	yes
Monitoring and displaying the process on LCD / LED screen	yes
Real-time temperature monitoring in the sterilization chamber	yes
Automatic vapor release	yes
Mandatory set of baskets for loading autoclaved waste.	yes
Temperature range: 121 -134 degrees C	yes
Temperature accuracy ± 1 °C	yes
Knife rotation technology eliminates the possibility of blocking / wrapping textile around the knives, Automatic reverse rotation in case of a blocked knife.	yes

Integrated Sterilizer & Shredder



Model ISS	ISS 25L	ISS AC-575	ISS 500L
Chamber dimensions Inner dia. x Depth	260 x 482 mm	500 x 800 mm	840 x 923 mm
Chamber volume	25 l	150 l	560 l
External dimensions W x H x D	1070 x 1025 x 725 mm	1290 x 2150 x 2039 mm	with housing W x H x D: 2710 x 2030 x 2300 mm with autoloader W x H x D: 2710 x 2900 x 2800 mm
Approximate weight	280 kg	880 kg	1500 kg
Average processable waste kg/h	5-7,5 kg/h *	45-67 kg/h *	100-150 kg/h *
Power supply**	3-Ph. 380-400 V, 50/60 Hz		
Power with steam generator	12 kW	36 kW	110 kW
Available sterilization cycles	Waste 134 °C / Textiles no Cut 134 °C / Special Waste 134 °C / Glass 134 °C		Waste 134 °C / Special Waste 134 °C / Glass 134 °C
Available test and other cycles	Dynamic test / Cleaning cycle		
Touch-screen display	LCD 5.7" Color Graphic		
Cabinet	Painted steel		
Chamber door	Automatic door locking system with advanced safety features		

* Depends on the density of the waste

** Adjustable to different voltage systems