

■ COMPACT SOLUTION FOR BIOHAZARD WASTE DISPOSAL

# Integrated Sterilizer & Shredder (ISS)

The ISS performs both shredding and waste steam sterilization in a single vessel. The vessel is fitted with a motor-driven shaft, with powerful shredding/crushing blades which reduce the size and volume of the waste.

- 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 prohibits unauthorized interruption.
- Efficient - Solution for highly infectious hospital departments and small clinics.
- Compact - Room of only 2 x 1.5 meters is necessary.
- Easily and quickly installed – Within few hours.



ISS 25L



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**celitron**  
medical technologies



**high-tech in sterilization**  
Professional Sterilizers and Medical Waste Solutions

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



The stainless steel vessel is fitted with a motor-driven shaft and the powerful shredding / crushing blades that can rotate in two directions to reduce the size and volume of the waste down to 20%.

The blades are mounted on the shaft and designed to shred waste such as sharps, dialyzers, syringes, papers, cloth, plastic and glass. The 4 kW motor is sufficient to rotate the shaft with an RPM of 400-1700 for various operations. Shredding is important as it enhances the steam penetration therefore improves the overall sterilization results.

The steam is internally produced by a steam generator, supplied by water purification and draining system as standard accessory.



Operating the ISS is very simple, load the waste into the chamber, close the door and press the Start Button. The cycle will run automatically. The total cycle time can take as fast as 15-20 minutes and between 2 to 4 kg of waste can be processed.

After treated in the ISS, the waste is sterile. The liquid components of the waste are steamed out of the vessel, re-condensed and drained to a municipal sewer. The waste is rendered, fragmented, non-toxic, largely solid and dry and therefore safe to be disposed as regular municipal waste.

## SPECIFICATIONS:

Model ISS	ISS 25L
Chamber dimensions Inner dia. x Depth	261 x 492 mm
Chamber volume	25,3 l
Useful volume	22 l
Approximate weight	140 kg
External dimensions W x H x D	1020 x 900 x 680 mm
Chamber door	Automatic door locking system
Available sterilization cycles	Waste 134 °C / Textiles no Cut 134 °C / Special Waste 134 °C
Available test and other cycles	Dynamic test / Cleaning cycle
Steam source	Built-in steam generator (6 kW)
Steam pressure (relative)	2.76 bar ( 43,5 psi)
Compressed air	6.0 – 8.0 bar ( 87 -116 psi)
Water source	Filtered Tap Water
Water pressure	1.0-6.0 bar (14.5-87 psi)
Power supply	3-Ph. 380V, 50/60 Hz
Power with steam generator	11 kW