

■ COMPACT SOLUTION FOR BIOMEDICAL 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 prohibit unauthorized interruption.
- Efficient - A single unit can serve any middle size hospital, clinic or laboratory.
- Easily and quickly installed.



ISS AC-575 and ISS 25L



## INTEGRATED STERILIZER & SHREDDER (ISS)

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, with 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 are designed to shred waste such as sharps, dialyzers, frozen blood, syringes, papers, cloth, plastic and glass. Shredding is important as it enhances the steam penetration therefore improves the overall sterilization results.

The steam is produced by a steam generator, supplied by water purification and draining system as standard accessory. The vessel is constructed with internal sprinklers for automatic cleaning.

The entire process is automatic, including the opening and closing the door, turning and rotating of the vessel and the sequences of shredding and sterilization. Depending on the capacity, the total cycle time can take as fast as 15-35 minutes and up to 150 kg of waste can be processed per hour. 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. As the waste is dehydrated, there is no risk of contaminated waste water. The waste is rendered, fragmented, non-tox-largely solid and dry and therefore safe to be disposed as regular municipal waste.



### SPECIFICATIONS:

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 1165 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 with autoloader W x H x D: 2710 x 2900 x 2800
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		LCD 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