

■ 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.



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ISS AC-575 and ISS 25L



Advanced Bio Waste Treatment  
& Sterilization Solutions



## 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<br>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<br>W x H x D         | 1070 x 1025 x 725 mm   | 1290 x 2150 x 2039 mm | 3000 x 2000 x 2000 mm                                    |
| Approximate weight                       | 280 kg   | 880 kg                | 1500 kg  |
| Average processable<br>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<br>generator            | 12 kW  | 36 kW                 | 72 kW  |
| Available sterilization<br>cycles        | Waste 134 °C / Textiles no Cut 134 °C /<br>Special Waste 134 °C / Glass 134 °C |                       | Waste 134 °C /<br>Special Waste 134 °C / Glass<br>134 °C |
| Available test and other<br>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