

Ecodas Environmental Treatment Solutions

The Sustainable & Proven Treatment Solution for Infectious, Biomedical Waste



The Concept:

- ECODAS has developed a patented, innovative and fully automated system that shreds then sterilizes Regulated Medical Waste (RMW) by saturated steam.
- ECODAS sustainable treatment process combines pre-shredding and direct pressurized heated steam all in one enclosed system.
- The final treated waste is sterilized residue that is safe for disposal as ordinary municipal waste while its initial volume is reduced by up to 80 %

Take control of your waste



Easy to use

One day training for operators,
Multilingual colour touch screen
Fully automated batch process
Low maintenance system



Reliable

Equipped with an interlock safety system
Shredding and sterilization in one
enclosed & compact system
No intermediate waste handling



Effective

Un-reusable waste
Pre-shredding permits effective sterilization
Up to 80% volume waste reduction
Temperature monitoring at the core of the waste



Environmentally Responsible

Green technology
Environmentally friendly
No hazardous emissions (Smoke, chemical
release, radiation)
Allows on-site treatment



Economical

Easy to install
No external transport & extra packaging needed
Cost reduction in treatment and management of
infectious waste
Short payback period, great ROI and large
saving

G&N Laboratory

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Call us Now on 07795 385273 to take
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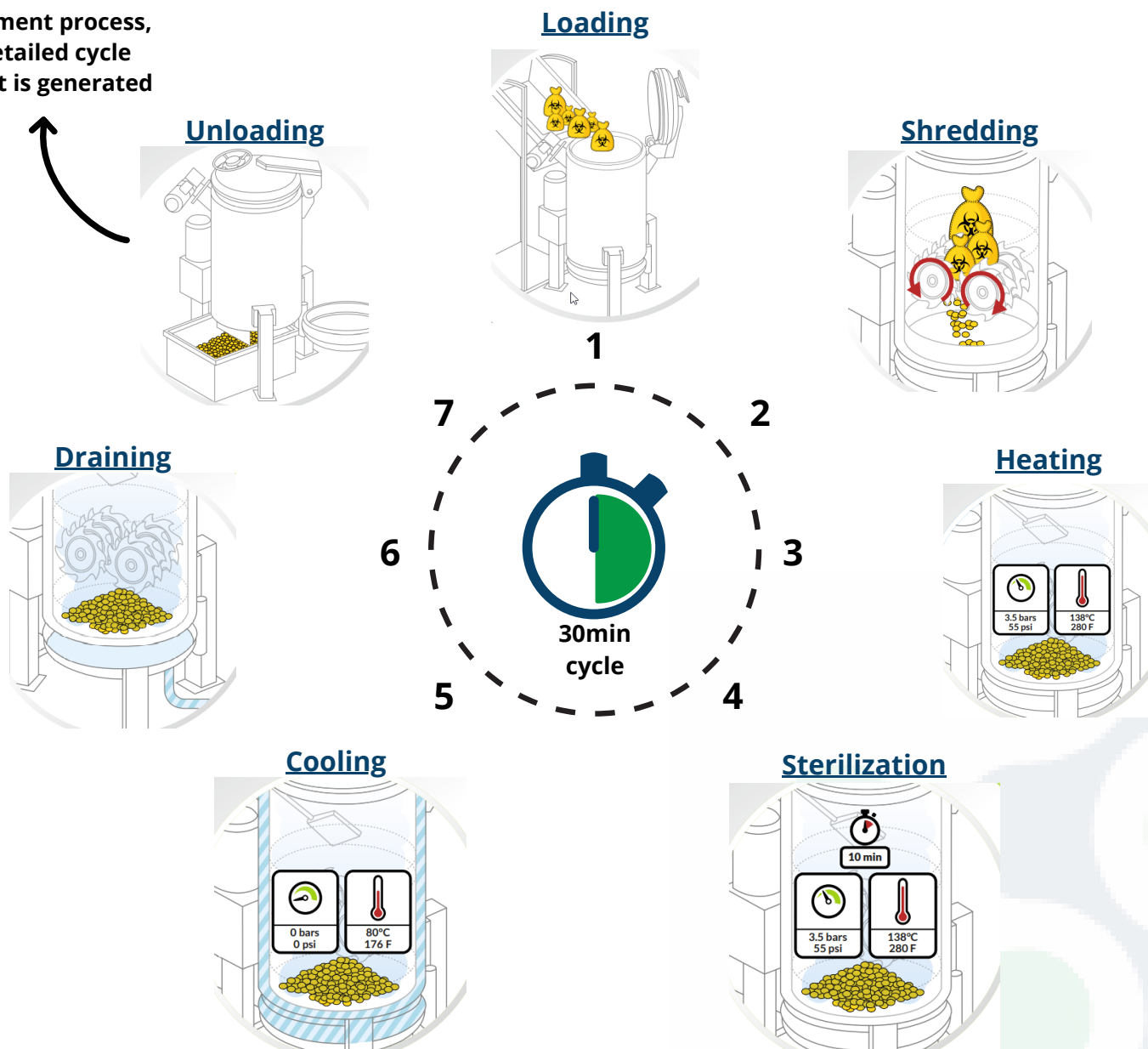
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The 7 Step Process of the Ecodas Treatment Cycle

At the end of the treatment process, a detailed cycle report is generated



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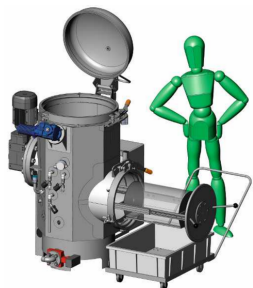
The Cycle Steps Explained

- 1) Loading: The automatic loading of the waste is performed through the top opening of the machine.
- 2) Shredding: Shredding starts as soon as the cover is closed, sealed and locked. The heavy-duty shredder features a regular automatic reverse rotation to prevent jamming and effectively shreds all kinds of waste.
- 3) Heating: The heating is achieved through saturated steam that raises the temperature to 138°C (280 F) and the pressure to 3.5 bar (51 psi).
- 4) Sterilization: Sterilization is achieved by maintaining 138°C (280 F) and the pressure to 3.5 bar (51 psi) at the core of the waste for 10 minutes. The combination of these factors achieves a microbial inactivation of 10^8 reduction (8 log10).
- 5) Cooling: Decompression through the flash tank reduces temperature and pressure in preparation for the opening of the machine.
- 6) Draining: The condensates and the cooling water are discharged into the sanitary drain, and the recovered heat is used to preheat the boiler.
- 7) Unloading: The Unloading of the final sterilized waste is carried out by gravity discharge into a garbage bin placed directly under the machine.

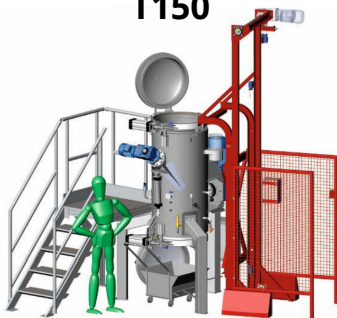
The Product Line

There are several models of the machines with different treatment capacities available to cater for varied requirements. The product line has a processing volume ranging from 100 to 2000 litre cycles.

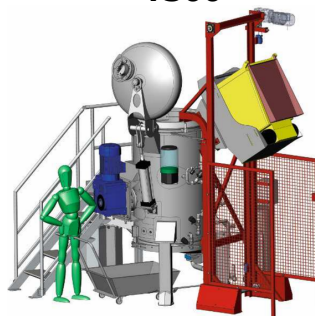
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T150



T300



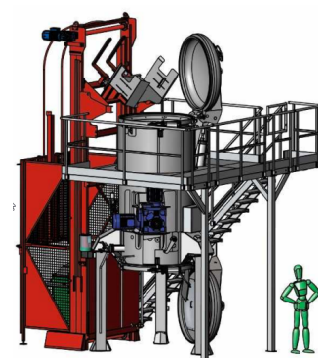
T700



T1000



T2000



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