



SHREDDING AND STERILIZATION OF MEDICAL WASTE

ECODAS

A Global Presence

- **ECODAS process can be used by various healthcare facilities or their medical waste treatment service providers.**
- **We are the leader in providing an alternative medical waste treatment technology in many countries around the world. Through our distributors in Europe, Africa, America and Asia, our international activities represent 70 % of our turnover.**
- **We have references in the following countries: Argentina, Algeria, Brazil, Cyprus, Denmark, Egypt, France, Guyana, Honduras, Hungary, Iran, Japan, Koweit, Lebanon, Morocco, Mexico, Poland, Russia, Saint-Lucia, Slovakia, Spain, Tunisia, United Kingdom...**



→ Countries in which ECODAS systems are installed

Advantages:

- **Easy to use:**
 - Fully automated batch process
 - By one-day trained operators
 - Low maintenance system
- **Reliable:**
 - Equipped with safety systems
 - Shredding and sterilization occur in a closed and compact system
 - No intermediate handling of the waste
- **Effective:**
 - Renders the waste unrecognizable
 - Pre-shredding permits an effective sterilization to the core of the waste
 - 80% volume reduction of treated waste
- **Environmentally responsible:**
 - Clean and Environmentally friendly technology
 - No hazardous emissions
 - Chemical-free process
 - No Radiation
 - Allows on-site treatment of waste
- **Economical:**
 - Easy to install on hospital sites: no external transport needed for waste treatment.
 - Cost reduction in the treatment and management of infectious waste.
 - Reduces the waste producer's liability created by off-site treatment process

ECODAS process has been tested by Pasteur Institute of Lille and approved by the Higher Council of Public Health of France since 1994, under the supervision of the Ministry of Health and the Ministry of the Environment.

ECODAS Systems are designed and manufactured in accordance with the following norms: **ASME** (The American Society of Mechanical Engineers), **MLSE** (China), **CE** (European Directives), **MHLW** (Japanese Ministry of Health, Labor and Welfare), **UC** (POLAND), and **GOSSTANDART** (Russia).

The quality assurance of ECODAS systems is executed following **ISO9001** standards.



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ENGINEERED SOLUTIONS FOR
HEALTHCARE & THE ENVIRONMENT



Taking control of your waste



ENGINEERED SOLUTIONS FOR HEALTHCARE & THE ENVIRONMENT

Our Solution: Safety in One Step

Medical Waste is often used to describe wastes generated during the diagnosis and treatment of humans or animals, and it is capable of producing infectious diseases. Medical Waste includes cultures and stocks, pathological wastes, blood products, sharps, tissue paper, plastic, glass, etc...

Healthcare facilities must monitor and eliminate the generated waste without endangering the public health and the environment.

ECODAS has developed an innovative, fully enclosed and automated system to sterilize medical waste, reduce its volume, and render its components unrecognizable. *Our patented process combines shredding, direct heated steam, and high pressure to achieve complete sterilization of infectious materials.* The final treated waste is harmless and safe to dispose of as ordinary municipal waste.



Three models available with different capacities to suit your needs: ECODAS T300, T1000 and T2000.

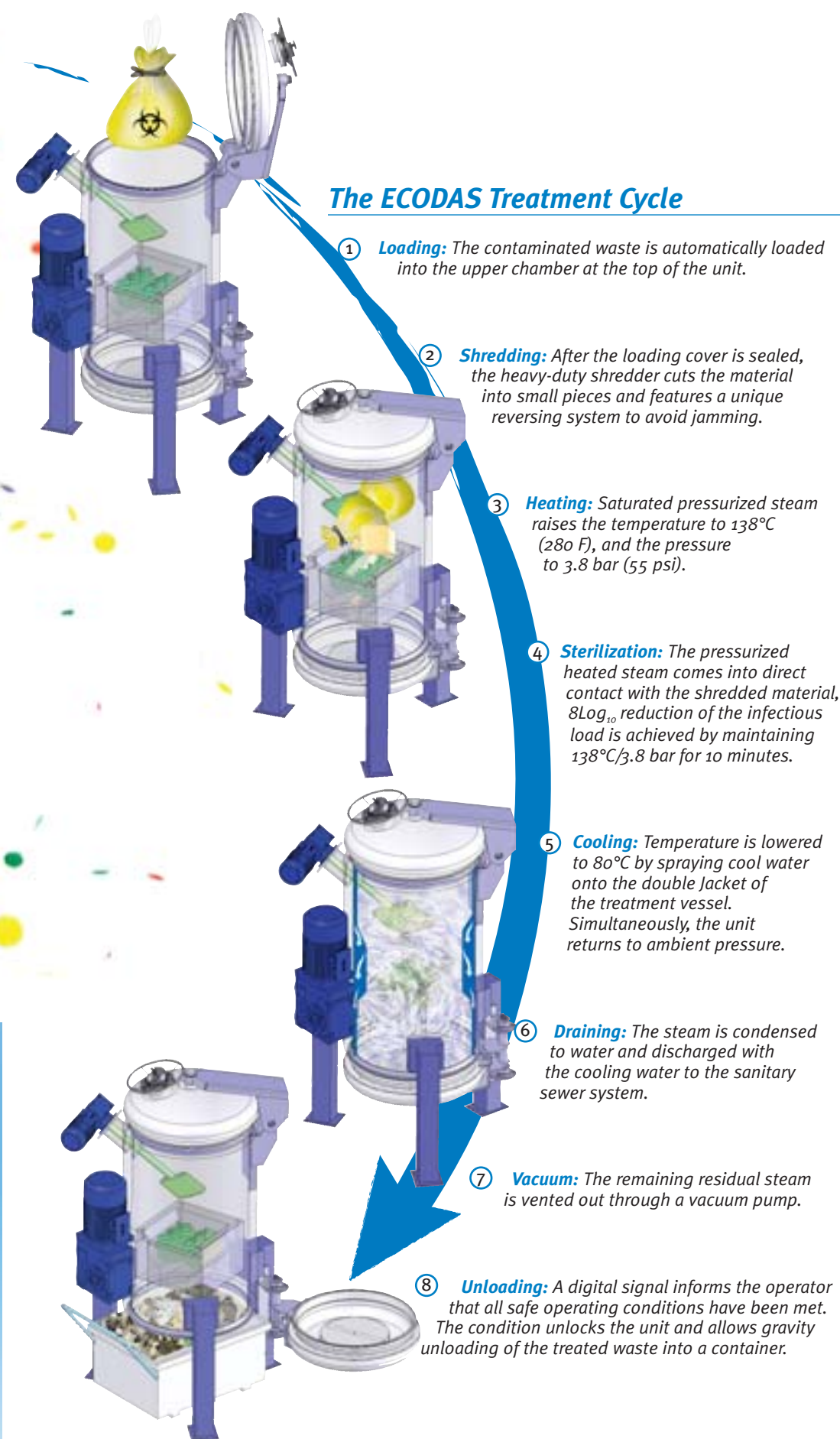
ECODAS A World-class Manufacturer

We design, manufacture and supply automated solutions for medical waste treatment worldwide. For more than twenty years, the ECODAS team has developed a wide expertise in pressurized thermal machine manufacturing for the textile, food processing and medical waste industries, providing high value solutions based on advanced technologies.

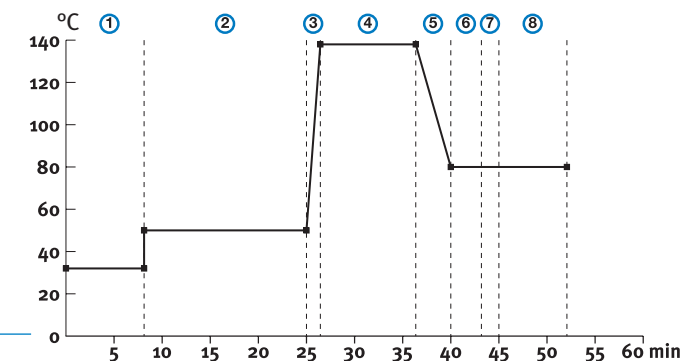
ECODAS is adopting a sustainable development strategy by creating robust systems while using recyclable components from the world's leader manufacturers.



The ECODAS Treatment Cycle



T 2000 Sterilisation Cycle



ACCURATE RECORD KEEPING

Sample of Treatment Cycle Report

ECODAS T2000			
Cycle n° 111294			
Date	Time	Waste Temp	Pres
25.01.2002	13.41	°C	bar
Loading	13.41	62	0.0
Step time	3.30		
Shredding	13.45	62	0.0
Step time	21.00		
Heating	14.06	61	0.0
Heating	14.07	120	1.5
Heating	14.08	135	3.5
Heating	14.09	138	4.0
Step time	4.13		
Standing	14.10	138	4.0
Standing	14.11	138	4.0
Standing	14.12	138	4.0
Standing	14.13	138	4.0
Standing	14.14	138	4.0
Standing	14.15	138	4.0
Standing	14.16	138	4.0
Standing	14.17	138	4.0
Standing	14.18	138	4.0
Standing	14.19	138	4.0
Step time	10.00		
Cooling	14.20	136	3.7
Cooling	14.21	134	3.4
Cooling	14.22	130	2.9
Cooling	14.23	125	2.1
Cooling	14.24	75	0.5
Cooling	14.25		
Step time	5.00		
Draining	14.25	75	0.0
Step time	4.40		
Vacuum	14.30	75	- 0.4
Step time	2.50	75	
Unloading	14.32		
Step time	2.10		0.0
Date	25.01.2002	Time	14.35
Cycle Time	53 mn		
Cycle OK			