ADVANTAGES

EASY TO USE
One day training for operators
Multilingual color “touch-screen”
Fully automated batch process
Low maintenance system

RELIABLE
Equipped with 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 and weight-reduced by up to 40 % depending on the nature of the waste
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 pay back period, great ROI, and large saving.

WORLDWIDE PRESENCE

For over 20 years, our products are produced entirely in our manufacturing plants in north France. Our ISO 9001 certification allows us to put in place a continuous improvement structure for our products and services. With 80% of sales in export we are adapted to different norms, applicable standards, and specific requirements for the manufacturing of pressure vessels in each market including in Europe, United States of America, Japan, China...
Our extensive distribution network enables us to not only ensure the sell but also the installation, commissioning, training, and aftersales service support of our systems in operation.

ECODAS machines are installed in more than 100 countries:

- Albania
- Algeria
- United Kingdom
- Angola
- Argentina
- Azerbaijan
- Bahrain
- Bangladesh
- Benin
- Bosnia
- Brazil
- Bulgaria
- Burkina Faso
- Cameroon
- Canada
- China
- Cyprus
- Costa Rica
- Denmark
- Egypt
- United Arab Emirates
- Ecuador
- Spain
- Estonia
- Finland
- France
- Gabon
- Ghana
- Greece
- Guadeloupe
- Guinea Konakry
- French Guyana
- Honduras
- Hong Kong
- Hungary
- India
- Indonesia
- Iran
- Iraq
- Italy
- Ivory Coast
- Jamaica
- Japan
- Jordan
- Kosovo
- Kuwait
- Kurdistan
- Laos
- Latvia
- Lebanon
- Libya
- Lithuania
- Maldives
- Morocco
- Martinique
- Mauritania
- Mauritius
- Mayotte
- Mexico
- Mozambique
- Nepal
- Nigeria
- New Caledonia
- Oman
- Palestine
- Panama
- Paraguay
- Netherlands
- Peru
- Philippines
- Poland
- French Polynesia
- Czech Rep.
- Reunion Island
- Romania
- Russia
- Saint Lucia
- Saint Pierre & Miquelon
- Saudi Arabia
- Senegal
- Singapore
- Slovakia
- South Korea
- Sudan
- Switzerland
- Syria
- Thailand
- Togo
- Tunisia
- Turkmenistan
- Turkey
- Ukraine
- Uruguay
- USA
- Venezuela
- Vietnam
- Zanzibar

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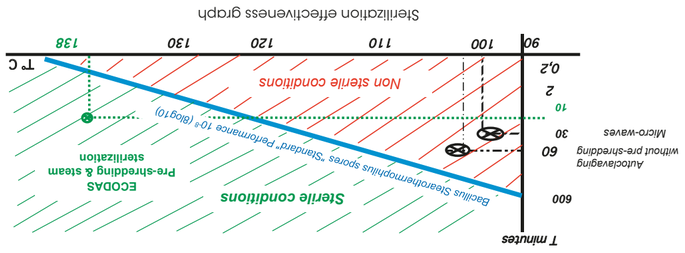


ECODAS

TAKING CONTROL OF YOUR WASTE

MADE IN ECODAS

THE SUSTAINABLE, & PROVEN TREATMENT SOLUTION

OUR 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 preshredding 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 % and weight-reduced by up to 40 % depending on the nature of the waste.

Now, ECODAS diversifies its applications to the following sectors: agro-food, slaughterhouses, seaports and airports as well as the destruction of confi dential documents.

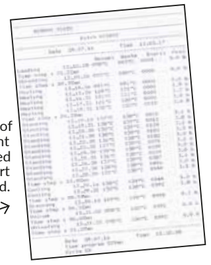
The ECODAS process has been tested by the Pasteur Institute and approved under the direction of the Ministry of Health and the Ministry of the Environment by the French Higher Council of Public Health and also complies with NFX30-503 standard, certified by the LNE. The quality management of ECODAS systems is executed following ISO 9001 and ISO 14001.
ECODAS systems are designed and manufactured in accordance with the following norms:
ASME (USA), CE (Europe), GOSSTANDART (Russia), MHLW (Japan), PLSE (China), CSA & TSSA (Canada), ...

ASME CE LNE

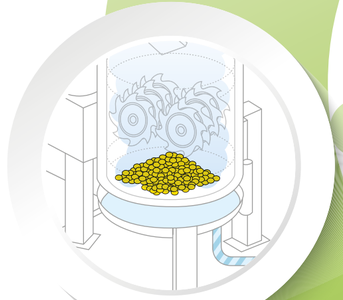
TÜVRheinland CERTIFIED Management System ISO 9001:2015 ISO 14001:2015 www.tuv.com ID 9105616092

COMPLY WITH STAAT STANDARDS

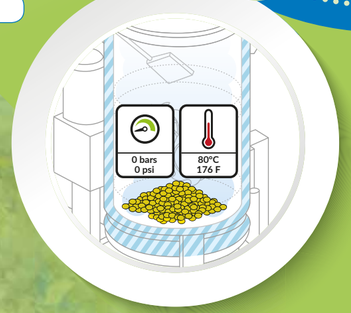
At the end of the treatment process, a detailed cycle report is generated.



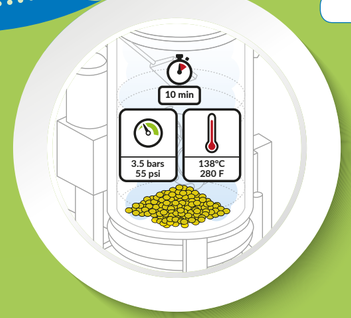
Sustainable TREATMENT CYCLE



DRAINING

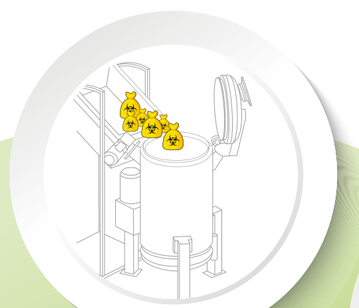


COOLING

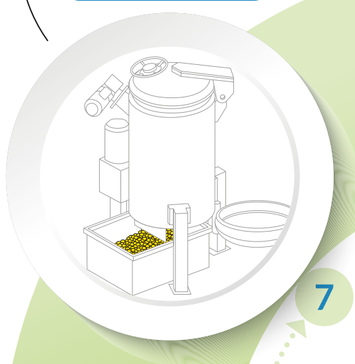


STERILIZATION

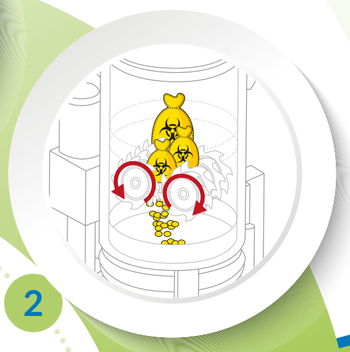
HEATING



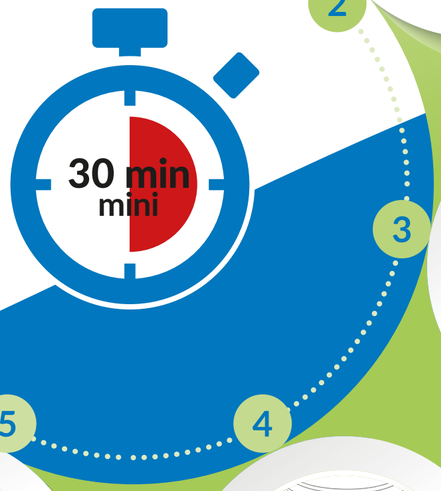
LOADING



UNLOADING



SHREDDING



1 2 3 4 5 6 7

Example of ECODAS T300 treatment cycle.

TREATED WASTE

- Infectious and biomedical waste
- Animal waste
- Seaports and airports waste

1 The **automatic loading** of the waste is performed through the top opening of the machine.

2 **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, effectively shreds all kinds of waste.

3 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 The **sterilization** is achieved by maintaining 138°C (280 F) and 3.5 bar (51 psi) at the core of the waste for 10 minutes. The combination of these different factors achieves a microbial inactivation of 10^8 reduction (8 log10).

5 **Decompression** through the flash tank reduces temperature and pressure in preparation of the opening of the machine.

6 The condensates and the cooling water are discharged into the **sanitary drain**, and the recovered heat is used to preheat the boiler.

7 The **unloading** of the final sterilized waste is carried out by gravity discharge into a garbage bin placed directly under the machine.

OUR PRODUCT LINE

Several models with different treatment capacities are available for a processing volume ranging from 100 to 2500 Liters per cycle.

T100

T150

T300

T700

T1000

T2000