

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.



TAKING CONTROL OF YOUR WASTE

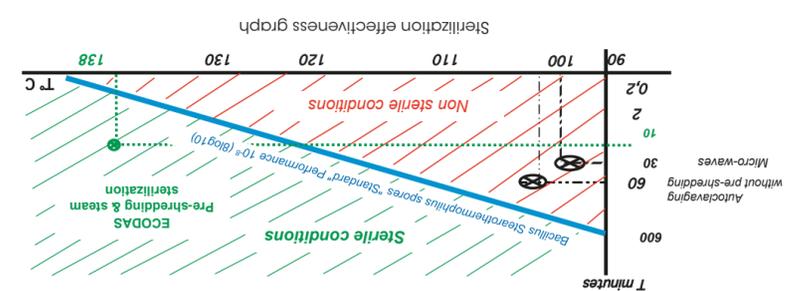


THE SUSTAINABLE, & PROVEN TREATMENT SOLUTION

ECODAS machines are installed in more than 100 countries:

- | | | | | |
|---|--|--|---|---|
| <ul style="list-style-type: none"> Albania Algeria United Kingdom Angola Argentina Azerbaijan Bahrain Bangladesh Benin Bosnia Brazil Bulgaria Burkina Faso Cameroon Canada China Cyprus Costa Rica Denmark | <ul style="list-style-type: none"> Egypt United Arab Emirates Ecuador Spain Estonia Finland France Gabon Ghana Greece Guadeloupe Guinea Konakry French Guyana Honduras Hong Kong Hungary India Indonesia Iran | <ul style="list-style-type: none"> Iraq Italy Ivory Coast Jamaica Japan Jordan Kosovo Kuwait Kurdistan Laos Latvia Lebanon Libya Lithuania Maldives Morocco Martinique Mauritania Mauritius | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Saint Pierre & Miquelon Saudi Arabia Senegal Singapore Slovakia South Korea Sudan Switzerland Syria Thailand Togo Tunisia Turkmenistan Turkey Ukraine Uruguay USA Venezuela Vietnam Zanzibar |
|---|--|--|---|---|

28 rue Sébastopol
 59 100 ROUBAIX - FRANCE
 Tél. +333 20 70 98 65
contact@ecodas.com
www.ecodas.com



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 confidential documents.

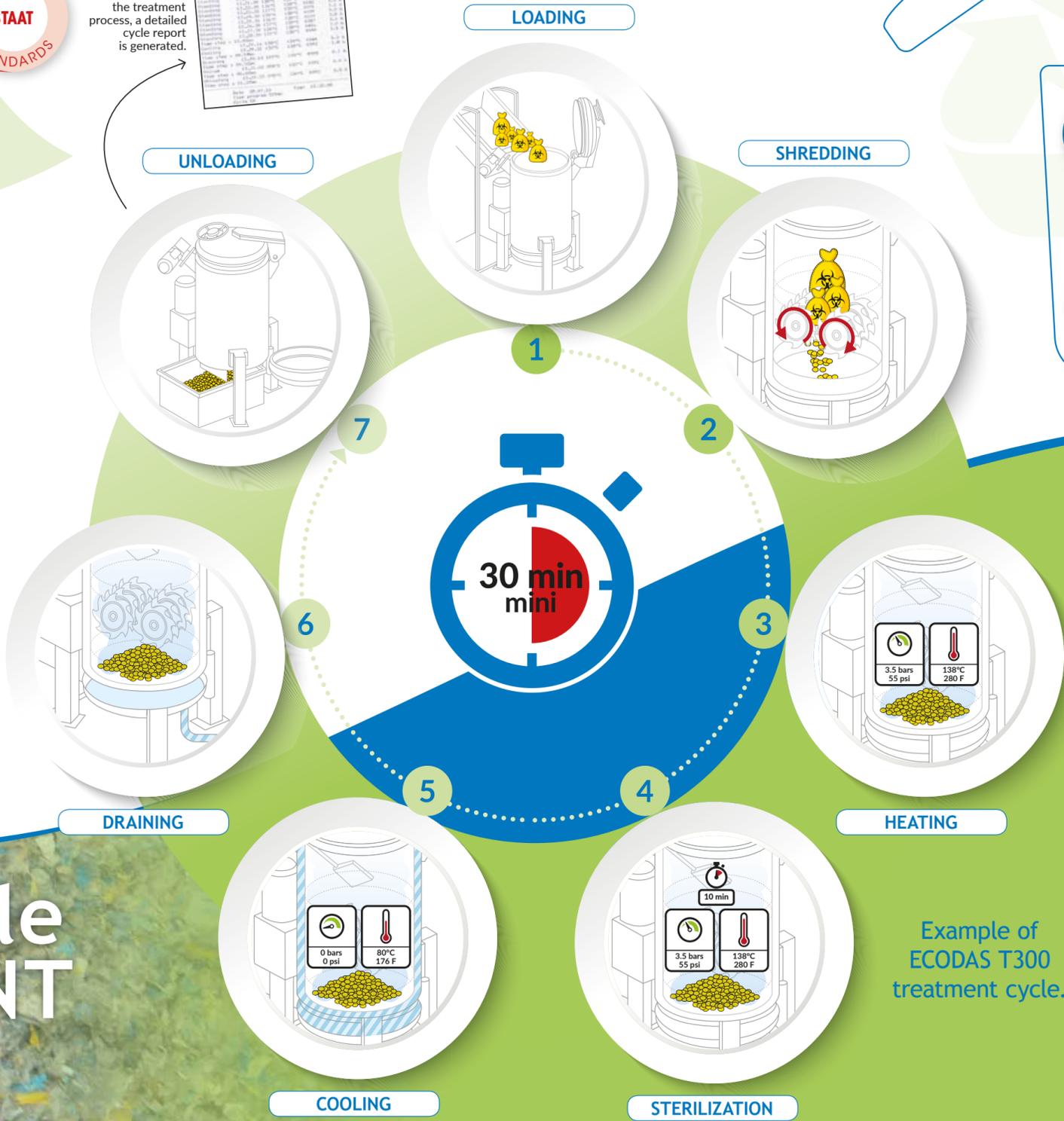


The ECODAS process has been tested by the Pasteur Institute and approved under the direction of the Ministry of Health and the Ministry of the Environment by the French Higher Council of Public Health and also complies with NFX30-503 standard, certified by the LNE. The quality management of ECODAS systems 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), ...



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

NO	DATE	TIME	TEMPERATURE	PRESSURE	STATUS
1	2015-01-01	08:00	138°C	3.5 bars	HEATING
2	2015-01-01	08:10	138°C	3.5 bars	STERILIZATION
3	2015-01-01	08:20	138°C	3.5 bars	STERILIZATION
4	2015-01-01	08:30	138°C	3.5 bars	STERILIZATION
5	2015-01-01	08:40	138°C	3.5 bars	STERILIZATION
6	2015-01-01	08:50	138°C	3.5 bars	STERILIZATION
7	2015-01-01	09:00	138°C	3.5 bars	STERILIZATION
8	2015-01-01	09:10	138°C	3.5 bars	STERILIZATION
9	2015-01-01	09:20	138°C	3.5 bars	STERILIZATION
10	2015-01-01	09:30	138°C	3.5 bars	STERILIZATION
11	2015-01-01	09:40	138°C	3.5 bars	STERILIZATION
12	2015-01-01	09:50	138°C	3.5 bars	STERILIZATION
13	2015-01-01	10:00	138°C	3.5 bars	STERILIZATION
14	2015-01-01	10:10	138°C	3.5 bars	STERILIZATION
15	2015-01-01	10:20	138°C	3.5 bars	STERILIZATION
16	2015-01-01	10:30	138°C	3.5 bars	STERILIZATION
17	2015-01-01	10:40	138°C	3.5 bars	STERILIZATION
18	2015-01-01	10:50	138°C	3.5 bars	STERILIZATION
19	2015-01-01	11:00	138°C	3.5 bars	STERILIZATION
20	2015-01-01	11:10	138°C	3.5 bars	STERILIZATION
21	2015-01-01	11:20	138°C	3.5 bars	STERILIZATION
22	2015-01-01	11:30	138°C	3.5 bars	STERILIZATION
23	2015-01-01	11:40	138°C	3.5 bars	STERILIZATION
24	2015-01-01	11:50	138°C	3.5 bars	STERILIZATION
25	2015-01-01	12:00	138°C	3.5 bars	STERILIZATION
26	2015-01-01	12:10	138°C	3.5 bars	STERILIZATION
27	2015-01-01	12:20	138°C	3.5 bars	STERILIZATION
28	2015-01-01	12:30	138°C	3.5 bars	STERILIZATION
29	2015-01-01	12:40	138°C	3.5 bars	STERILIZATION
30	2015-01-01	12:50	138°C	3.5 bars	STERILIZATION
31	2015-01-01	13:00	138°C	3.5 bars	STERILIZATION
32	2015-01-01	13:10	138°C	3.5 bars	STERILIZATION
33	2015-01-01	13:20	138°C	3.5 bars	STERILIZATION
34	2015-01-01	13:30	138°C	3.5 bars	STERILIZATION
35	2015-01-01	13:40	138°C	3.5 bars	STERILIZATION
36	2015-01-01	13:50	138°C	3.5 bars	STERILIZATION
37	2015-01-01	14:00	138°C	3.5 bars	STERILIZATION
38	2015-01-01	14:10	138°C	3.5 bars	STERILIZATION
39	2015-01-01	14:20	138°C	3.5 bars	STERILIZATION
40	2015-01-01	14:30	138°C	3.5 bars	STERILIZATION
41	2015-01-01	14:40	138°C	3.5 bars	STERILIZATION
42	2015-01-01	14:50	138°C	3.5 bars	STERILIZATION
43	2015-01-01	15:00	138°C	3.5 bars	STERILIZATION
44	2015-01-01	15:10	138°C	3.5 bars	STERILIZATION
45	2015-01-01	15:20	138°C	3.5 bars	STERILIZATION
46	2015-01-01	15:30	138°C	3.5 bars	STERILIZATION
47	2015-01-01	15:40	138°C	3.5 bars	STERILIZATION
48	2015-01-01	15:50	138°C	3.5 bars	STERILIZATION
49	2015-01-01	16:00	138°C	3.5 bars	STERILIZATION
50	2015-01-01	16:10	138°C	3.5 bars	STERILIZATION
51	2015-01-01	16:20	138°C	3.5 bars	STERILIZATION
52	2015-01-01	16:30	138°C	3.5 bars	STERILIZATION
53	2015-01-01	16:40	138°C	3.5 bars	STERILIZATION
54	2015-01-01	16:50	138°C	3.5 bars	STERILIZATION
55	2015-01-01	17:00	138°C	3.5 bars	STERILIZATION
56	2015-01-01	17:10	138°C	3.5 bars	STERILIZATION
57	2015-01-01	17:20	138°C	3.5 bars	STERILIZATION
58	2015-01-01	17:30	138°C	3.5 bars	STERILIZATION
59	2015-01-01	17:40	138°C	3.5 bars	STERILIZATION
60	2015-01-01	17:50	138°C	3.5 bars	STERILIZATION
61	2015-01-01	18:00	138°C	3.5 bars	STERILIZATION
62	2015-01-01	18:10	138°C	3.5 bars	STERILIZATION
63	2015-01-01	18:20	138°C	3.5 bars	STERILIZATION
64	2015-01-01	18:30	138°C	3.5 bars	STERILIZATION
65	2015-01-01	18:40	138°C	3.5 bars	STERILIZATION
66	2015-01-01	18:50	138°C	3.5 bars	STERILIZATION
67	2015-01-01	19:00	138°C	3.5 bars	STERILIZATION
68	2015-01-01	19:10	138°C	3.5 bars	STERILIZATION
69	2015-01-01	19:20	138°C	3.5 bars	STERILIZATION
70	2015-01-01	19:30	138°C	3.5 bars	STERILIZATION
71	2015-01-01	19:40	138°C	3.5 bars	STERILIZATION
72	2015-01-01	19:50	138°C	3.5 bars	STERILIZATION
73	2015-01-01	20:00	138°C	3.5 bars	STERILIZATION
74	2015-01-01	20:10	138°C	3.5 bars	STERILIZATION
75	2015-01-01	20:20	138°C	3.5 bars	STERILIZATION
76	2015-01-01	20:30	138°C	3.5 bars	STERILIZATION
77	2015-01-01	20:40	138°C	3.5 bars	STERILIZATION
78	2015-01-01	20:50	138°C	3.5 bars	STERILIZATION
79	2015-01-01	21:00	138°C	3.5 bars	STERILIZATION
80	2015-01-01	21:10	138°C	3.5 bars	STERILIZATION
81	2015-01-01	21:20	138°C	3.5 bars	STERILIZATION
82	2015-01-01	21:30	138°C	3.5 bars	STERILIZATION
83	2015-01-01	21:40	138°C	3.5 bars	STERILIZATION
84	2015-01-01	21:50	138°C	3.5 bars	STERILIZATION
85	2015-01-01	22:00	138°C	3.5 bars	STERILIZATION
86	2015-01-01	22:10	138°C	3.5 bars	STERILIZATION
87	2015-01-01	22:20	138°C	3.5 bars	STERILIZATION
88	2015-01-01	22:30	138°C	3.5 bars	STERILIZATION
89	2015-01-01	22:40	138°C	3.5 bars	STERILIZATION
90	2015-01-01	22:50	138°C	3.5 bars	STERILIZATION
91	2015-01-01	23:00	138°C	3.5 bars	STERILIZATION
92	2015-01-01	23:10	138°C	3.5 bars	STERILIZATION
93	2015-01-01	23:20	138°C	3.5 bars	STERILIZATION
94	2015-01-01	23:30	138°C	3.5 bars	STERILIZATION
95	2015-01-01	23:40	138°C	3.5 bars	STERILIZATION
96	2015-01-01	23:50	138°C	3.5 bars	STERILIZATION
97	2015-01-01	00:00	138°C	3.5 bars	STERILIZATION
98	2015-01-01	00:10	138°C	3.5 bars	STERILIZATION
99	2015-01-01	00:20	138°C	3.5 bars	STERILIZATION
100	2015-01-01	00:30	138°C	3.5 bars	STERILIZATION



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 10⁶ reduction (6 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.

Example of ECODAS T300 treatment cycle.

Sustainable TREATMENT CYCLE



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**