

Organic waste:  
how is it managed?

TODAY



1.  
Transfer of the organic waste in biodegradable bags and then in bins.



2.  
Handling of the bag in the weekly collection bin.

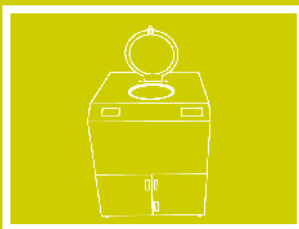


3.  
Transport of the bins to landfills/incinerators/ biomass systems.

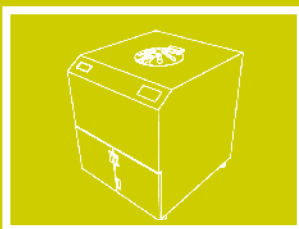


Collection  
Transport  
Disposal

TOMORROW with ECODYGER



1.  
**Loading of the machine.**



2.  
**Start of the cycle (medium duration 6 hours).**



3.  
**From waste to RESOURCE.**

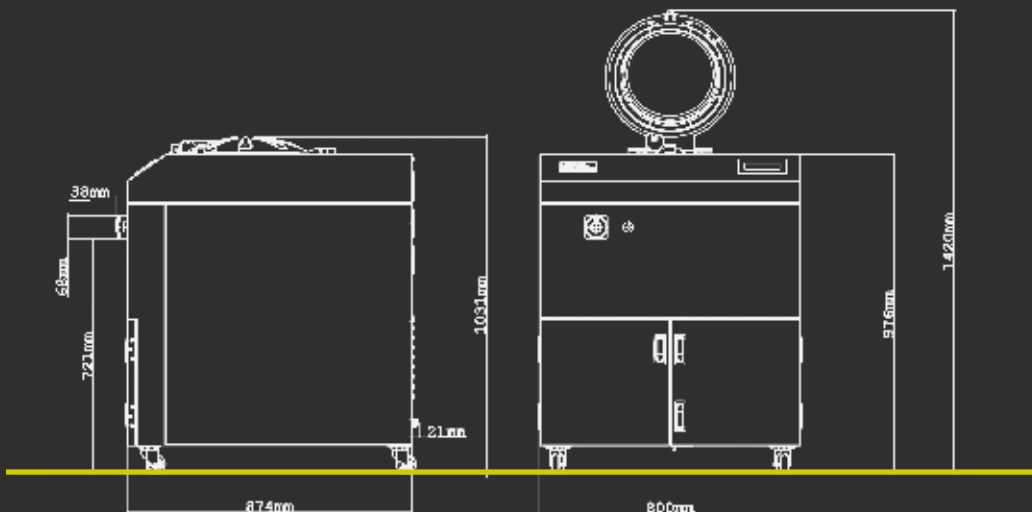
**70 - 90 %**  
Liquid resource  
(irrigation water)

**10 - 30%**  
Solid resource  
(fertilizer, etc)

**NO Collection**  
**NO Transport**  
**NO Disposal**



For a better future!



Patented  
brand,  
technology  
and design

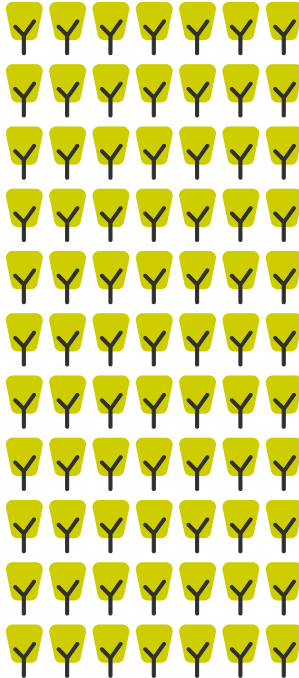


Manufacturer code	<b>ECODPRO100</b>
Type of controls (mech. / electronical)	<b>electronical/touch screen</b>
FS (free standing) - BI (built-in) - SL (slot-in)	<b>FS</b>
Aesthetics / colour	<b>stainless steel AISI 430 (scotchbrite / brushed) + aluminum</b>
Finishing	<b>stainless steel AISI 430</b>
Energy consumption (min. - max.) for average cycle (KWh/cycle)	<b>0.6 - 19.6</b>
Energy consumption per liter of evaporated water (kWh/liters)	<b>+/- 1.40</b>
Cycle time at full load min. - max. (hours)	<b>6-7</b>
Maximum capacity for cycle (organic waste liters)	<b>53-55</b>
Dry waste container capacity (liters)	<b>19</b>
Centrifugal pump for connection/drain to the water supply	<b>Yes</b>
Delay timer	<b>Yes</b>
Noise level (dBA)	<b>-</b>
Security system	<b>Yes</b>
Voltage/frequency	<b>400V/50Hz</b>
Power (max during cycle) (W)	<b>4500</b>
Product dimensions (H x W x D mm)	<b>976 x 800 x 874</b>
Total height with door open (mm)	<b>1420</b>
Net weight (Kg)	<b>175</b>
Gross weight (Kg)	<b>185</b>
Packaging type / material	<b>carton / polyurethane foam</b>
Packaging dimensions (H x W x D mm)	<b>1100 x 900 x 950</b>
Pallet 1200x1000mm load ability (units)	<b>1</b>
Container load 20' / 40' / 40HC (units)	<b>24 / 48 / 48</b>
Product warranty (years)	<b>1</b>
Waste chamber for waste treatment (years)	<b>5</b>
Certifications (CE/GS, TUV, IMQ, etc...)	<b>CE</b>
Power cable lenght (meters)	<b>3</b>

The manufacturer reserves the right to change the features of the product



UK2013/01



ORGANIC WASTE SUSTAINABLE MANAGEMENT AT THE SOURCE



PROFESSIONAL





## “Organic waste: **not** a refuse, but a **RESOURCE**”



The problem of the organic waste management afflicts all those structures and services that everyday prepare, produce, supply and serve food: **restaurants, canteens, hotels, care homes, supermarkets, cooking centers, barracks, fast-food cafes, catering services, holiday village resorts, campings, etc.**

**The inconvenience that the production of organic waste creates is very high if we observe the many aspects involved:**

🌱 The lack of space and the encumbrance of the stored organic waste.

🌱 The bad odors released, especially during summer season, which are often source of attraction for bugs and stray animals.

🌱 Germs and bacteria that attack the hygiene of the working place and the derived necessity to clean and recondition the place where the organic waste is being stored.

🌱 High expense for the logistics management of the organic waste.

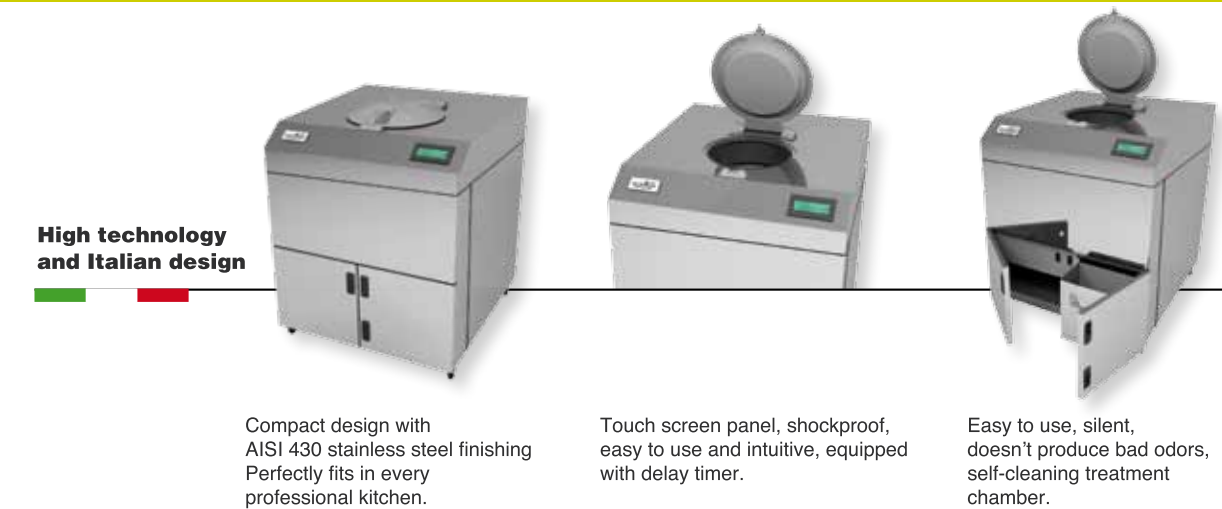
Every year **252 millions of tons of waste** are being produce in Europe. The **35%** of it is **organic waste**.

The new European Directives impose the progressive and total closure of all open-pit landfills, which have always been the place of delivery for organic waste; furthermore, **the new European Directive introduces for the very first time the concept of Waste Management with the purpose to give sustainable solutions and the progressive reduction of the impact on the environment and the related CO<sub>2</sub> emissions**, in order to reach **in 2020 the total auto-disposal of organic waste directly at the source**, under the **‘Zero Waste’** philosophy.

This will progressively require that every structure will be properly equipped to apply to this obligation.



## **ECODYGER**: organic waste sustainable management at **the source**



High technology  
and Italian design

Compact design with  
AISI 430 stainless steel finishing  
Perfectly fits in every  
professional kitchen.

Touch screen panel, shockproof,  
easy to use and intuitive, equipped  
with delay timer.

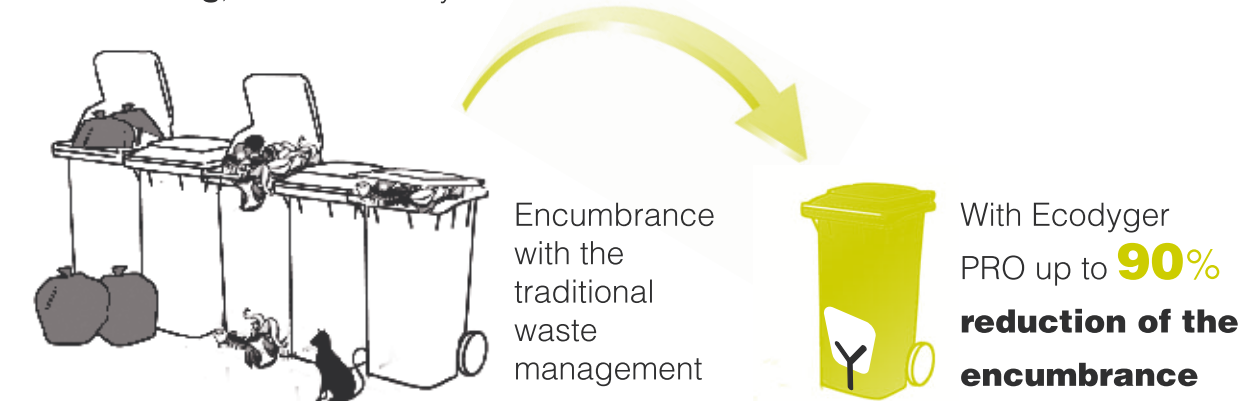
Easy to use, silent,  
doesn't produce bad odors,  
self-cleaning treatment  
chamber.

**Ecodyger PRO** is an innovative and sustainable system that regenerates in a few hours, thorough a dehydration process, the organic waste, **reducing its volume of up 90%**.

The machine and its technology, patented worldwide, regenerate the waste produced by any structure which prepares, handles and consumes food, giving at the end of the cycle **two resources**, one **solid** and one **liquid**, employable in nature in the everyday life.

**Ecodyger PRO** is designed to process almost the entirety of organic waste: rice, pasta, bread, meat, fish, chicken and rabbit bones, seashells and seafood, vegetables, fruit and fruit stones. Furthermore, the machine can process all the new bio-compostable materials (plates, glasses, cutlery and tray covers), including paper napkins, usually used in the collective restoration. Big bones such as T-bones, pig knuckle bones and large ribs are excluded. Ecodyger regenerates the organic waste through a cycle that can last from 5 to 7 hours, depending on the loaded mix.

The machine's chamber has a capacity of **75 liters** equal to **30 Kg**, for a total daily capacity of **90/100 kg**, divided into 3 cycles.



Easy to use: once the machine has been loaded, press the START button. The machine is equipped with a load recognition function that will detect the volume and weight of the organic waste and, in a few minutes, will display the cycle duration.

It is also equipped with a DELAY TIMER function that allows the user to decide when to start the cycle in order to take advantage of the lower rates for energy consumption during off-peak hours. The treatment chamber is self-cleaning and does not require any particular maintenance.

## Organic waste – an **important resource** for **your** and the **environment**:

The residues released at the end of the **Ecodyger PRO** cycle are two: one liquid and one solid. These have been tested by laboratories accredited worldwide. On the basis of the results obtained, the residues have been identified for their properties and employment as **“RESOURCES”**:

**The liquid residue**, bacteria-less and without any bacterial load, can be used:

- 🌱 As irrigation water containing organic and nutritive substances. It can be used to water green areas, gardens and plants.
- 🌱 As washing water to be used in industrial processes.
- 🌱 It can also be disposed through the public sewage system.

**The solid residue**, with exhausted bacterial load, characterized by a non perturbing smell, is more chemically stable than the original organic waste. It can be easily stored without the necessity to have dedicate large spaces and specific equipment:



**1. Organic-mineral fertilizer**, perfect for agriculture and flora-garden nurseries (\*).

**2. Soil improver**, able to correct the hydro geologic and transpiring features of clayish and sandy grounds.

**3. An optimal base for the production of quality compost** in a short time.

**4. Accelerator for the compost maturation process** for both home and large systems.

**5. A potential process catalyst for biomass systems** for both home and large systems.

In addition, the solid residue produces on site, avoiding any operation of collection, selection and use of specific plants (Zero Waste), SRF “Solid Recovered Fuel” – formerly known as RDF “Refuse Derived Fuel”. Thanks to its calorific value, SRF can be used to produce energy in authorized plants such incinerators, cement plants, power plants or other energy-consumptive premises.

(\*) Where permitted by regulatory provisions in force.

### **Ecodyger PRO:** many advantages to the user, institutions and the environment

It is possible also to dispose of the solid residue together with the generic non-differentiated waste.