



Waste Recycling Machines

protect
our
world



protect our world



ZERO WASTE FOR A BETTER WORLD

While the world offers unique living resources and natural beauties to human beings, humanity is mercilessly destroying this unique world they breathe in. If the world is destroyed, man and all living things will perish. Everyone is aware of this fact, but still, human beings selfishly become victims of their ego and greed. We shop far beyond our needs, consume more and waste a lot of it.

Annual food waste in Turkey has exceeded 300 billion liras. This dire picture reveals the necessity of implementing various policies in this area and taking mandatory measures for awareness. The Zero Waste Project, which stands out among these measures, both contributes to Turkey's economy and makes a difference as an approach that protects the environment by preventing wastage and using resources more efficiently.

Today, many recyclable resources are wasted, leading to wastage of energy and resources. Waste, which is one of the most important factors affecting not only the environment but also the country's economy, is transformed into reusable resources with the Zero Waste project.

Due to the deterioration in the balance of the world and the increasing need for limited resources, each country has its own recycling projects. The Zero Waste project is among the very important and valuable projects that set an example for all countries of the world and ensure the reuse of natural resources.

Continuing its activities in Turkey and North America, OCTO INDUSTRY aims to eliminate the transportation cost and storage problem of garbage, with the conversion provided as organic fertilizer with recycling machines of various capacities, which achieve the most efficient result among the existing recycling machine systems and work with plug and play logic.



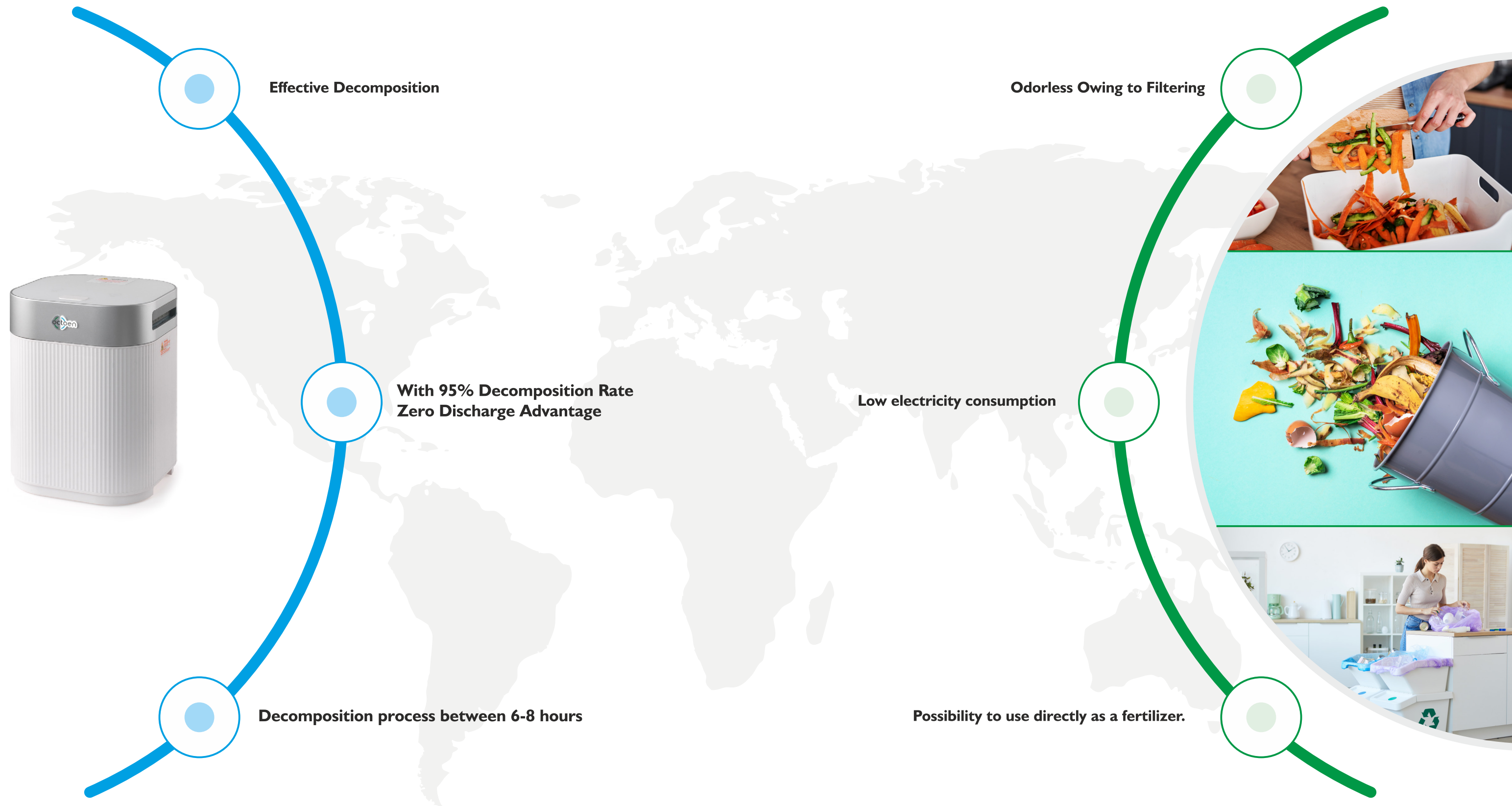
ABOUT OCTOEN SERIES

Our company, which has been producing for many years on defence industry, medical and advanced technology products, started to work on recycling machines with the mission of contributing to recycling and environmental awareness, producing solutions in the field of organic recycling and eliminating the need for imported fertilizers, using its ongoing sectoral experience. Our company, which follows up-to-date technologies on recycling systems around the world. In addition to standard products, it develops solutions according to needs. Many systems are installed by our company, from recycling wastes to fertilizer, biogas and electricity production.

Our machines, which we call third generation waste recycling machines. Unlike other machines, it provides a unique ease of use. With the logic of plug and play, you can dispose of all food waste with or without bones in our machines, which are activated with a single button, without distinction. The automation system, which detects the density of the discarded waste, starts the fermentation process according to the type of waste. It completes the decomposition process with 95% efficiency at the end of the specified hour by heating, dewatering, antibacterIALIZING with UV-C and decomposing the waste with microbial bacteria between 6 and 12 hours, silently and without requiring the user. It performs odorless separation thanks to the Hepa filter. The resulting waste is 100% organic and compost fertilizer with rich content. Compared to equivalent machines, it has low energy consumption and is 70% smaller, and unlike other machines, it does not require any water inlet or discharge line, and its operation with 220 V electricity reduces construction and operating costs during and after installation. The system does not require constant maintenance and operator participation like other machines. It can be easily transported and used for breaking pieces etc. Without having to deal with problems, it provides your business with low operating costs and zero waste.

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Performance



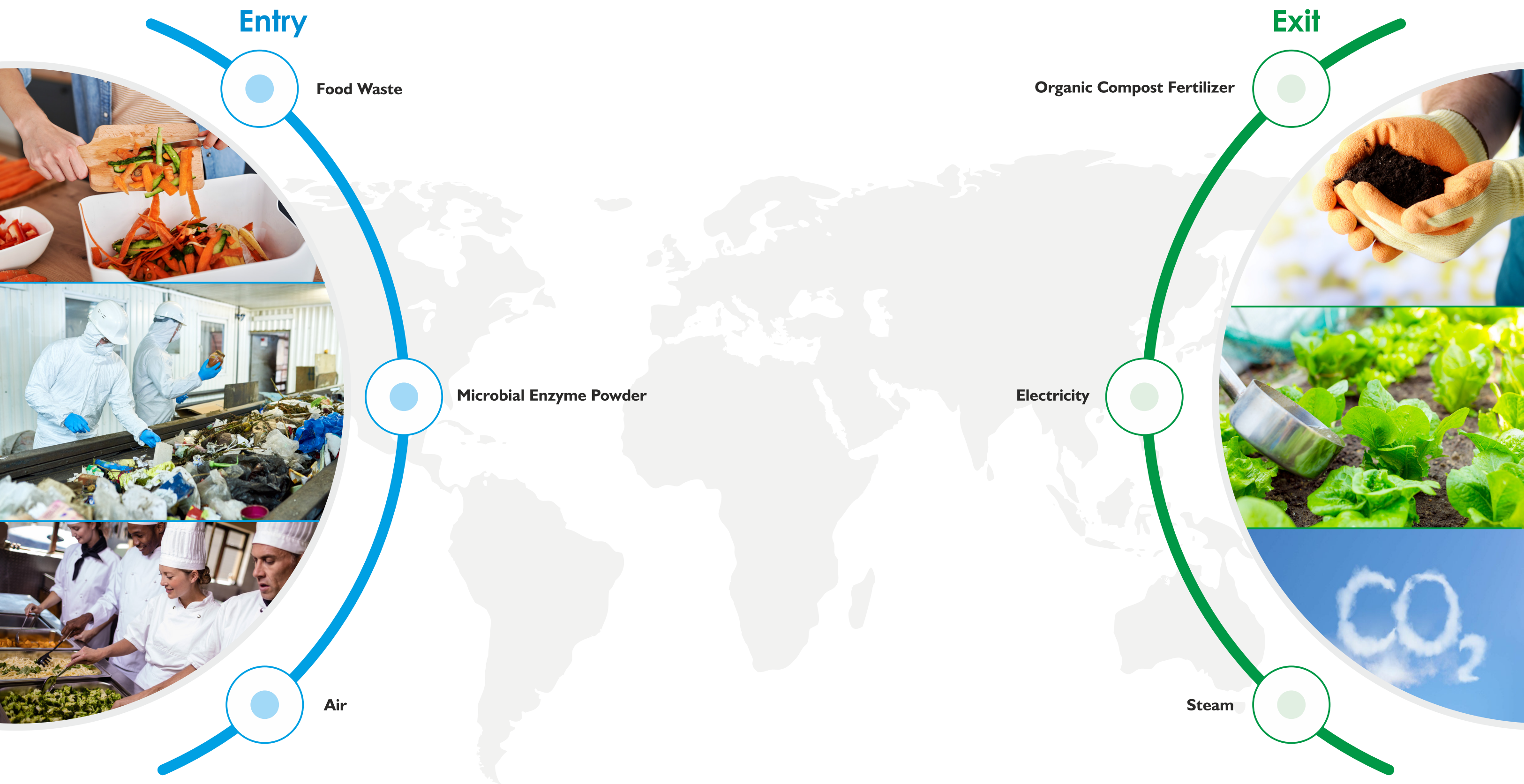


On-site recycling of kitchen waste is a value-adding process that offers significant economic and social benefits. Kitchen waste is a relatively single waste product compared to household waste. Not only is the sorting of such waste easy, but the products obtained after separation have a higher added value.

After the plastic, metal, etc. products in the waste are separated; the remaining material consists mainly of starch, cellulose, protein, and fibers. It also contains small amounts of nitrogen, phosphorus, potassium, calcium, magnesium, and iron. The valuable biomass that is produced at the end is used as high-quality compost fertilizer.

At the end of this whole recycling process, the prevention of secondary pollution, the elimination of waste transport and storage costs, and the transformation into a usable commercial product is a real gain in terms of economic and environmental awareness. On-site waste recycling reduces the spread of bacterial diseases and provides a healthier and more comfortable work environment.

Waste sorting habit at work helps individuals to have the same habit in their lives outside of work.









5 KG



Model: ECO-05KS 		Household
Control System: Auto Detection	Decomposition Method: Microbial Decomposition	
Decomposition Capacity: 5kg/Day	Conversion Rate: >95%	
Useful Life of Fertilizer: 6-12 Months	Size (LxWxH, cm): 31*29*38	
Voltage: 220 V	Max. Power: 65 W	
Net Weight: 16.8 kg	Attachment: Fertilizer Box Included	
Power Consumption: About 1 kwh/Day		




50 KG

Model: ECO-50KSN 		Target User: Commercial
Control System: Auto Detection	Decomposition Method: Microbial Decomposition	
Decomposition Capacity: 50kg/Day	Conversion Rate: >95%	
Useful Life of Fertilizer: 6-12 Months	Size (LxWxH, cm): 65*42*65	
Voltage: 220 V	Max. Power: 670 W	
Net Weight: 125 kg	Attachment: Fertilizer Box Included	
Power Consumption: About 2.5kwh/Day	Exterior Material: Steel	


20 KG



Model: ECO-20KSN 		Target User: Commercial
Control System: Auto Detection	Decomposition Method: Microbial Decomposition	
Decomposition Capacity: 20kg/Day	Conversion Rate: >95%	
Useful Life of Fertilizer: 6-12 Months	Size (LxWxH, cm): 65*42*65	
Voltage: 220 V	Max. Power: 470 W	
Net Weight: 98 kg	Attachment: Fertilizer Box Included	
Power Consumption: About 2.5kwh/Day	Exterior Material: Steel	




100 KG

Model: ECO-100KSN 		Target User: Commercial
Control System: Auto Detection	Decomposition Method: Microbial Decomposition	
Decomposition Capacity: 100kg/Day	Conversion Rate: >95%	
Useful Life of Fertilizer: 6-12 Months	Size (LxWxH, cm): 126,5*55*96	
Voltage: 220 V	Max. Power: 670 W	
Net Weight: 285 kg	Attachment: Fertilizer Box Included	
Power Consumption: About 4kwh/Day	Exterior Material: Steel	




300 KG


Model: ECO-300KSN  Target User: Commercial	
Control System: Auto Detection	Decomposition Method: Microbial Decomposition
Decomposition Capacity: 300kg/Day	Conversion Rate: >95%
Useful Life of Fertilizer: 6-12 Months	Size (LxWxH, cm): 150*150*130
Voltage: 220 V	Max. Power: 2600 W
Net Weight: 2600 kg	Crusher including
Power Consumption: About 13kwh/Day	Exterior Material: Steel



1 T


Model: ECO-1000KSN  Target User: Commercial	
Control System: Auto Detection	Decomposition Method: Microbial Decomposition
Decomposition Capacity: 1000kg/Day	Conversion Rate: >95%
Useful Life of Fertilizer: 6-12 Months	Size (LxWxH, cm): 200*150*130
Voltage: 220 V	Max. Power: 3200 W
Net Weight: 3800 kg	Crusher including
Power Consumption: About 20-40kwh/Day	Exterior Material: Steel

500 KG

Model: ECO-500KSN  Target User: Commercial	
Control System: Auto Detection	Decomposition Method: Microbial Decomposition
Decomposition Capacity: 500kg/Day	Conversion Rate: >95%
Useful Life of Fertilizer: 6-12 Months	Size (LxWxH, cm): 150*150*130
Voltage: 220 V	Max. Power: 2600 W
Net Weight: 3200 kg	Crusher including
Power Consumption: About 15kwh/Day	Exterior Material: Steel

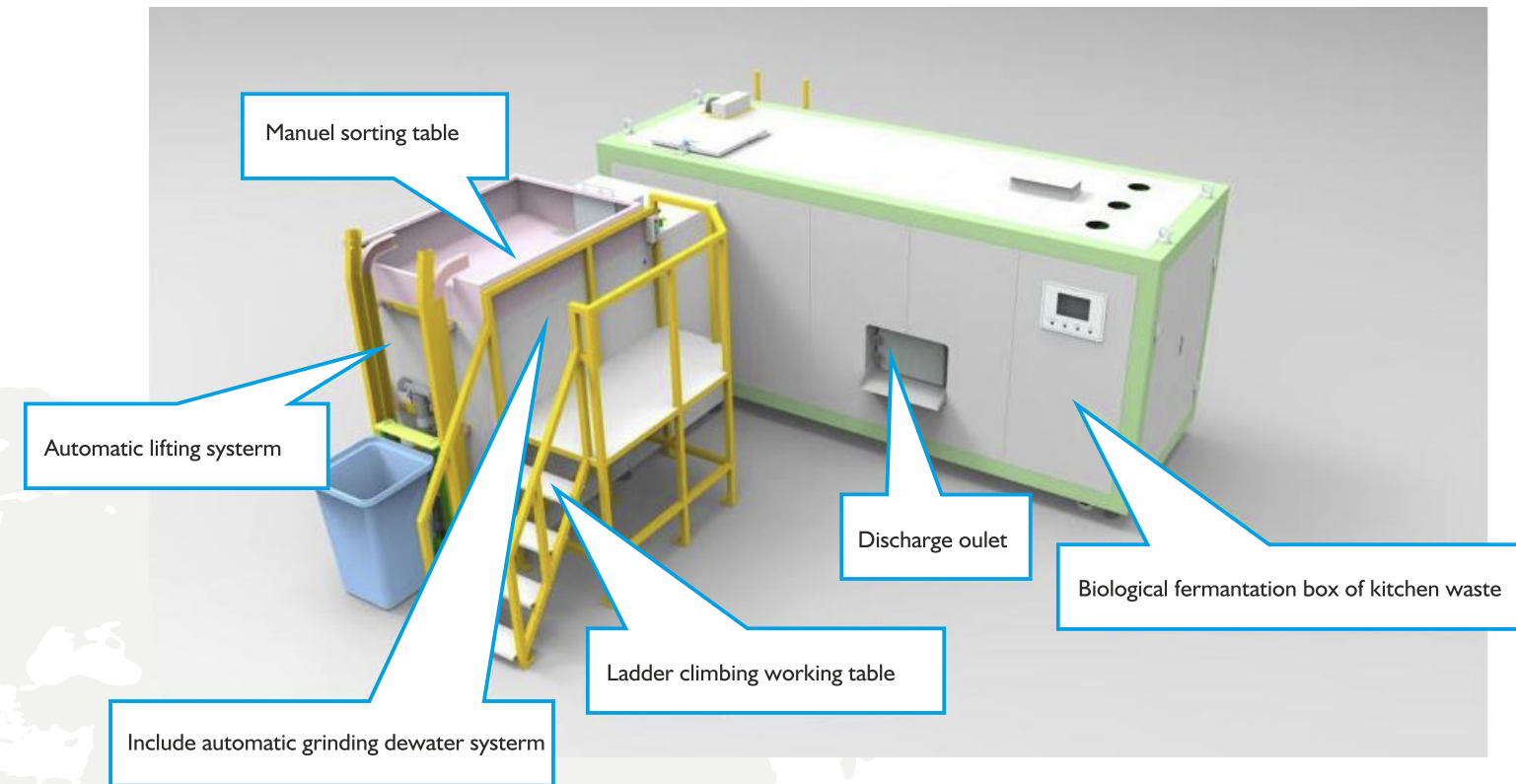


5 T

Model: ECO-5000KSN  Target User: Commercial	
Control System: Auto Detection	Decomposition Method: Microbial Decomposition
Decomposition Capacity: 5000kg/Day	Conversion Rate: >95%
Useful Life of Fertilizer: 6-12 Months	Size (LxWxH, cm): 750*408*215
Voltage: 380 V	Max. Power: 8500 W
Net Weight: 5680 kg	Crusher including
Power Consumption: About 85-120kwh/Day	Exterior Material: Steel



working principle



Fundamental Information

1. Waste source: restaurant kitchen waste
2. Treatment scale: 500 kg of kitchen waste per day.
3. Decomposition technology: High-temperature microbial decomposition technology.
4. Working Area 40 square meters, 4 meters height
5. Loading system: it automatically empties the waste container into the hopper with the lifting mechanism.
6. Unloading system: Saves time and manpower with its automatic unloading function.

1. Mixing System
 2. Fermentation degradation system.
 3. PLC automatic electronic control system.
 4. Heating system.
 5. Treatment and deodorization system.
- Small footprint and compact structure.
The processing speed is fast, the decomposition efficiency is high, and the odor is low.
Easy to scale production, easy to install, easy to dismantle, easy to operate and maintain.
It automatically adjusts the temperature, constant temperature control to ensure the desired fermentation temperature.

General Specifications

1. First, you must place the container where the leftovers will be placed on the machine lift.
2. If there is glass, metal, etc., in the waste, these materials shall be separated from the control table after the container has been emptied.
After the sorting process, the waste materials enter the crusher.
3. After the crusher, the sorted materials are automatically fed into the screw extruder. Dewatering is done here
4. Then, the conveying system conveys the solid content of more than 40% of the dry material into the fermentation tank,
and the dry material starts the high-temperature aerobic fermentation process in the tank for 12-24 hours.
5. The odor gas generated in the aerobic high-temperature fermentation tank with high humidity, high temperature, and high pollution is discharged into the gas purification box (odor removal system) after purification.

This equipment can operate automatically 24 hours a day; after 24 hours of continuous operation, 90% of the waste is converted into harmless water vapor, carbon dioxide, and heat, and about 10% are discharged in the form of gas.



📍 **OCTO ENDÜSTRİ BİLİŞİM TİC. A.Ş**
Sahrayıcedid Mah. Atatürk Cad. No: 36/2
Kadıköy / İSTANBUL / TÜRKİYE
☎ +90 216 359 70 89

📍 **AUNIVEN INC.**
30 North Gould Street, Sheridan,
Wyoming 82801,
United States

🌐 **www.octoen.com**

✉ **info@octoen.com**

☎ +90 532 136 55 83
☎ +90 532 136 55 94

