Make composting easy.

Food waste composters
make composting easy.

Oklin International Ltd

Headquartered in Hong Kong, Oklin manufactures in Korea and distributes worldwide a complete line of composting machines to help solve the problem of food waste disposal. It also works with assisted living communities, catering companies, schools and other public institutions to establish a "closed loop" program of minimizing carbon footprint. Oklin produces a wide variety of different models of composting machines, from the family sized GG-CMO-02 to large-scale commercial models designed to handle over a ton of food waste per day. Oklin's machines are marketed worldwide under the GreenGood, Closed Loop Organics and other brand names. After more than ten years of market experience in the Korean and Japanese markets perfecting the machines, Oklin began selling in other regions, such as Australia, Canada and Europe. Machine performance has been certified with the European CE, North American ETL, and Australian C-Tick marks. Customers will find that Oklin machines are an easy to use, fast and environmentally safe means to dispose of food waste.

Oklin food waste decomposition system

Machine Description

The Oklin food waste decomposition system is designed for rapid composting performance. It is used by households, restaurants, hotels, schools, apartment buildings, communities, offices and cafeterias. Depending on the model, it can process from 2 to 500 tons of food waste per year. The one-touch control is fully automatic, sensing composting status and providing feedback and control to the operation without pre-setting a timer. There is no need for connection to a water supply or to a sewer system.

Process Description

The machine composts waste using an energy-efficient and automated control process. The system employs high temperature microorganisms to decompose food waste and organic matter. This is accomplished without the need for repeated additions of microorganisms or other additives to the composting chamber. Processing time will vary depending on the waste input but normal mixed food waste should take no longer than 24 hours to virtually disappear. The end product can be used as a soil amendment suitable for landscaping or gardening.

Benefits

1. As much as 90% volume reduction of food solid waste.
2. Low labor cost - automated function; full operation can be accomplished by one person for any model.
3. No secondary pollution or handling noise on-site.
4. No wastewater.
5. No landfill costs.
6. Low maintenance.
7. Low odor generation.

Turning food waste into compost in 24 hours: Your contribution to the natural life cycle.

There are numerous microorganisms in nature, including fungi and bacteria, and some of the microorganisms are capable of turning food waste into compost. Some are more efficient than others, and we use the most efficient. Using these microorganisms, Oklin machines compost food waste within 24 hours.

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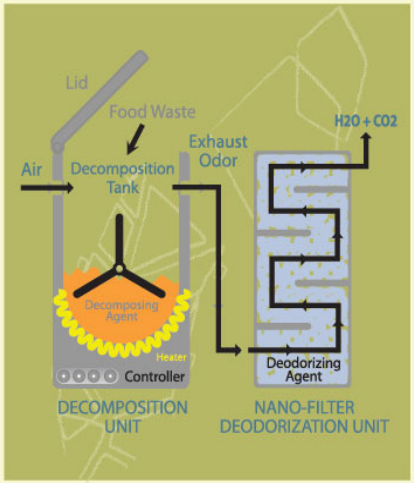

Composting Changer Description

The composting chamber has an internal means of mechanical agitation. The chamber has an oil jacket with substantial insulation and well sealed inlet and outlet doors to minimize energy consumption. The system is equipped with a deodorizer to control odors associated with the composting process. The only utility requirement is an electrical connection. The decomposing chamber is capable of producing 60-80℃ during processing to insure that the end product has a mild odor and is completely free of harmful bacteria.

A total solid waste solution!

Using the Oklin decomposition system to deal with food waste, the resulting compost can be used as an organic fertilizer or as a soil amendment. There are two ways this can work.

1 : Easy Local Processing

Residents or community property management personnel can mix soil with compost in the ratio of 1:10 for basic soil fertilizer use. This is easy to operate for community gardens and to establish a "closed loop" ecosystem.

2 : Centralized Processing

If the user or community cannot use compost, it can be recovered through a granulation process to create a commercial grade organic fertilizer. It can then be used for a variety of different purposes, such as fruit and vegetable planting, flower planting, landscaping and other uses that require specific nutrient conditions, as well as the organic fertilizer market.

Fig.1 : Compost ready to be used

Fig.2 : Compost with soil mixed in the ratio of 1:10 for organic fertilization

Fig.3 : Seeding Period
- 2 weeks after sowing -

Fig.4 : Growing Period
- 4 weeks after sowing -

Fig.5 : Maturity Period
- 5 weeks after sowing -

Vegetable planter experiment

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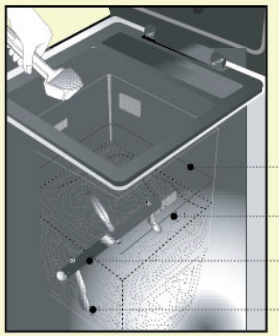
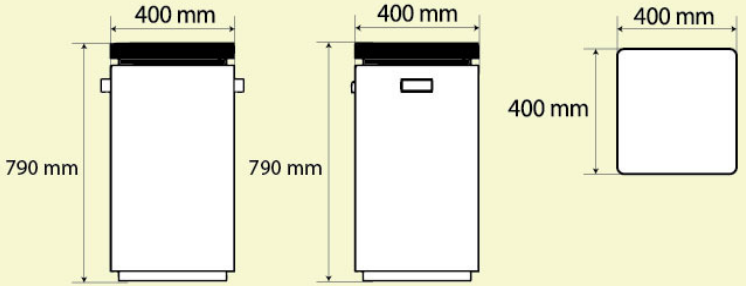
Specifications : GG - CMO - 02

Decomposition Method	Aerobic composting
Design Type	Stand-alone, portable design
Input Capacity	Approximately (2 tons / year)
Average Solid Waste Reduction	85-90%
Treatment Time	24hrs (to achieve 85-90% reduction)
Power Supply	210-220V, 50/60Hz (all voltage and frequency suggested)
Power Consumption	240W
Energy Consumption	60-90 kWh/month
Equipment Dimensions (W x D x H mm, Weight)	400 x 400 x 790 mm (27kg)
Dimension with packaging (W x D x H mm, Weight)	460 x 450 x 840 mm (28.5kg)
Material	Outer case - ABS; inner tank - stainless steel
Safety Feature	The internal agitator automatically stops when the hopper door is open.
Heating Method	Indirect multi-step heat & air recirculation.
Automated Control	One-touch smart control panel automates sensing and control of the process.
Odor Treatment	Carbon nano processing technology.
Installation	One phase electrical supply; no water or connection required; vent to outdoors.
Treatable Items	Vegetables, fish, bread, meat, animal fine bones and other compostable organic biomass.
Untreatable Items	Metal waste, plastic, glass, petrochemicals, big bones, large shells, etc.
Warranty	1 year manufacturer's standard warranty.

Model : GG - CMO - 02



Product Dimensions:



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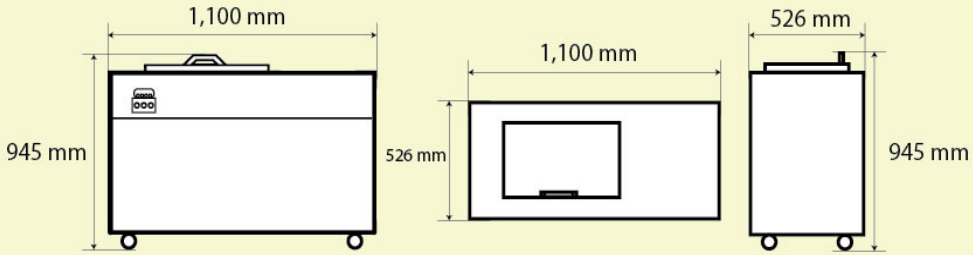
Specifications : GG - CMO - 10

Decomposition Method	Aerobic composting
Design Type	Host and deodorizing device
Input Capacity	Approximately (10 tons / year)
Average Solid Waste Reduction	85-90%
Treatment Time	24hrs (to achieve 85-90% reduction)
Power (Electricity)	210-220V, 50/60Hz (all voltage and frequency suggested)
Power Consumption	1.35kW
Electric Energy Consumption	400-600 kWh/month
Equipment Dimensions (W x D x H mm, Weight)	1,100 x 526 x 945 mm (190kg)
Deodorizer Dimensions (W x D x H mm, Weight)	448 x 634 x 1,151 mm (30kg)
Dimension with wooden box (W x D x H mm, Weight)	1,250 x 1,250 x 1,450 mm (250kg)
Material	Stainless steel tank
Safety Feature	The internal agitator automatically stops when the hopper door is open.
Heating Method	Indirect multi-step heat & air recirculation.
Automated Control	One-touch smart control panel that automates sensing and control of the process.
Odor Treatment	Carbon nano processing technology.
Installation	One phase electrical supply; no water or connection required; vent to outdoors.
Treatable Items	Vegetables, fish, bread, meat, animal fine bones and other compostable organic biomass.
Untreatable Items	Metal waste, plastic, glass, petrochemicals, big bones, large shells, etc.
Warranty	1 year manufacturer's standard warranty.

Model : GG - CMO - 10

Product Dimensions:



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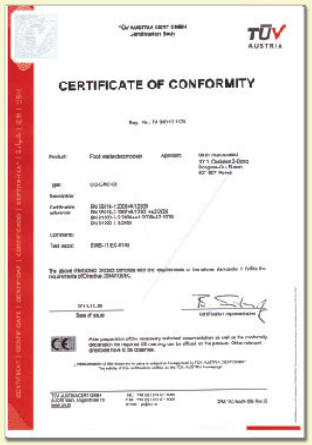
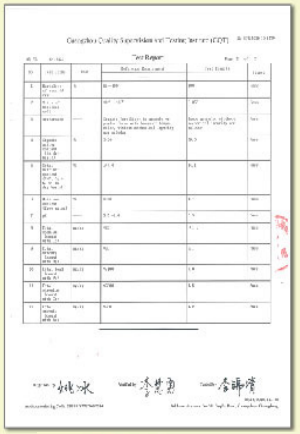
CE certification



ISO certification

ETL certification

Organic fertilizer test report



Compostability Guide

Compostable Food & Other Waste

Non-compostable Food Waste & Prohibited Materials

Instruction :

1/ Identify and separate compostable and non-compostable food wastes before operation.

2/ Do not deposit any prohibited materials to avoid contamination of compost or machine damage, voiding warranty.