Proposal for converting waste into resources to support the eco-activities of our customers

Industrial kitchen waste processing system

Applicable field
For the local environment recycling system model efforts of local governments For kitchen garbage treatment at hotels and restaurants

Features

- Volume reduction rate: 85%!
- The built-in oxidation catalyst deodorizer completely eliminates unpleasant odors.
- Holed chip replacement is not necessary.
  This system does not require the additional supply or replacement of holed chips, since the injected kitchen garbage works as a carrier.

Overview (Technical principles, actions, etc.)

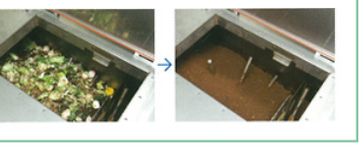
The heater heats up the air containing odor-generating components. The heated air containing odor-generating components is decomposed into vapor and carbon dioxide gas by going through a catalyst and is emitted as clean air.
This system is designed for high energy efficiency to effectively use the heat from the deodorizer for controlling the temperature in the tank (heat circulation system).

- A safety system is activated when overheating or an overload is detected during operation.
- This system uses the indirect heating method, which heats the bottom of the treatment tank with air.
- The injection door and the treatment tank door have locks as a standard feature.
- Stirring is automatically stopped when the injection door is opened during operation.
- The injection door has a damper for the safety of the injection process.

1 Injection of kitchen garbage

2 Processing

Processing takes 24 hours. The system operates for 24 hours in normal mode, which operates at 60°C to 70°C, and 12 hours in smart mode, which completely eliminate bacteria.During injection The volume is drastically reduced one day after injecting garbage.



3 Removing compost and cleaning filters

Remove compost and clean filters every week.

4 Compost (processed materials)

Use the compost for gardening and in fields as organic fertilizer.

※The compost contains an appropriate amount of nitrogen, phosphoric acid and potassium.

Introductory Track Record

■ This system is sold in Japan, Taiwan, Sweden and other countries.
This system is being used in a variety of setting such as in the kitchens of companies, hotels and nursing homes, as well as at the garbage stations of local governments.

Effects

◎ The system can reduce the amount of food waste generated in large volumes as unsold food or leftovers, as well as waste generated on food production lines, to 1/10 to 1/5, which can be used as fertilizer. Recycling and effectively using food waste as the raw material of feed and fertilizer is an extremely important step in building a recycling-based society.
We offer industrial kitchen garbage processing systems equipped with our unique energy conservation functions.
Our systems assist with the efficient conversion of waste into resources while reducing energy consumption.
The processed waste can be used as compost for gardens, parks, roadside trees, farms and flowerbeds as a part of environmental education and tree-planting activities. The compost can be given to local residents to encourage coexistence with the local community.

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