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For Clean Earth!
Patented Biological Proces



Patented Microorganisms!



Hi-speed Treating!



On-site Elimination of food waste!



SOMAbio's
Own Eco-friendly Treatment Technology!
The Best Disposal Unit for Business Use

HOLY-G
070 | 099



SOMAbio Co., LTD. is a company innovating eco-friendly disposal unit for food waste recycling based on a completely unique fermenting technology.

Biological systems of earth have been maintained by sophisticated orders for billions of years. However, human activities for the pursuit of happiness and an industrial development broke those orders. Consequently, the globe is warming up yearly, and we are now experiencing the catastrophe from wrenching climatic changes. The biological systems of earth are now exposed to tremendous threat of destruction. The absolute value of living nature has declared in Rio de Janeiro, 1992.

A population explosion and industrial development has been produced wastes. Bio wastes have always been with humanity. People chose to bury them in landfill or dump to ocean. And that choice brought on secondary contamination. Now, we must solve those problems on land efficiently, economically, and eco-friendly. Despite all efforts of the government and industry, the development of bio waste treating technology has been delayed because of the own problems of bio waste such as spoilage, bad odor or stench, leachate, gases, and salt.

SOMA bio has been invested on this area and performed clinical trials for 3 decades. Finally, the best combination of microorganisms which can easily, efficiently break protein, lipid and fiber was established. Now we have SOMA bio's own Complex Preparations of Microorganisms, Bio-mechanic Fermenter, Microbial Complete Extinction-type Bio waste Disposal unit), and Fermented feed and fertilizer.

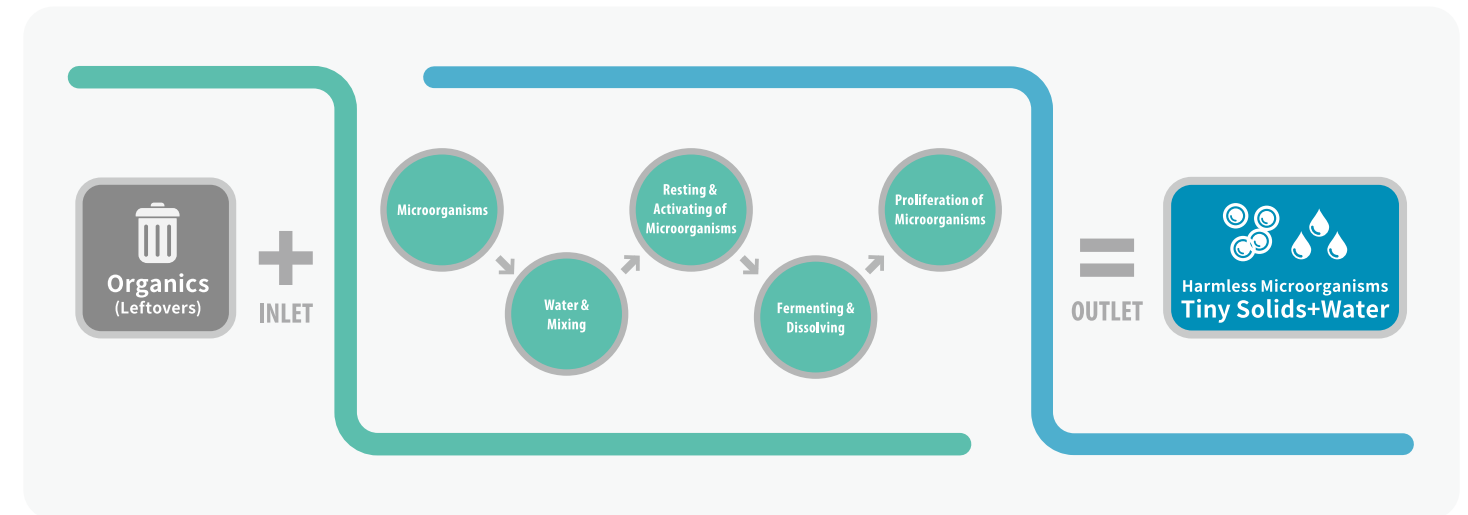
Our disposal unit can provide a solution for bad odor and leachate. If the best condition for the growth of microorganisms of treating tank is maintained, the unit can treat maximum throughput within 6 hours 2 times a day. When whole process ends, most of bio wastes are turned to water and drained out. There is no need of extra ventilation system or deodorant chemical agents. So the unit can be installed in kitchen.

You can use the drained water as a supplementary feed or fertilizer. The technology of SOMA bio can provide new solution against environmental destruction.

- 1988** 04 Developed food waste fermenting process(Patented)
- 1993** 01 Established Dongsu Machinery
- 1996** 04 Developed Fermenting / Dissolving Microorganisms & Unit
- 1997** 08 Developed Hi-speed Fermenting System
- 1998** 03 Efficiency comparison of functional fermented feed with formulated feed (Socho farming corporation)
- 2001** 10 Established Clean Fermentation Co., Ltd.
- 02 Clinical Trial for food waste fermented feed (Poultry & Pig Test in Ichon city)
- 2004** 09 Changed company name to SOMA Co., Ltd.
- 10 Proved the feasibility of by-product feed made by micro-dry technology by Livestock Research Institute
- 2006** 09 Participated in an International Exhibition on Environmental Technologies 2006

- 2006** 01 Had a Bid License of Public Procurement Service (PPS)
- 2009** 12 Established a research department
- 2011** 04 MOU contract with Daejeon CITY
- 06 ISO 9001, ISO 14001
- 2012** 05 Prized for he Best Technical Innovation in Innovation Award 2012
- 2014** 07 Promising SME of Daejeon city
- 2015** 03 Supply Contract with PPS for Government purchasing
- 04 Awarded the Best Innovative Environment Technology in 10th Digital Innovation Award
- 09 Selected as a Best Invention & Recommended Buying Product by KIPO(Korean Intellectual Property Office)
- 2016** 10 Awarded a Bronze Prize in Korea Invention Patent Exhibition 2015
- 2017** 12 Received a citation from the chief of Daejeon PPS (2015-8)
- 01 Changed company name to SOMAbio Co., LTD.
- 02 8 Registered patents of Microorganisms, Bio-mechanic Fermenter, Food Waste Disposal Unit with Microorganisms

Biological Process of SOMAbio



SOMAbio's own preparation of complex microorganisms decompose organics. For example, main components of organics such as carbohydrate, fiber, fat, protein are broken down into glucose, amino-acids, fatty-acids, and fed to microorganisms during resting cycle. Some of the harmless microorganism are drained out with water.

Sustainable Technology for Earth!

We have a preparation of complex microorganisms (Patented) and mechanism designed to sustain best conditions for the growth and activation of Microorganisms (Patented). Drained water (Effluent) can be used as a supplementary fertilizer after processing appropriately. Also microorganisms in drained water dissolve organics stuck in a drain pipe, purify sewage water and finally improve soil ecology.



Patented Preparation of Complex Microorganisms



Drained water after processing



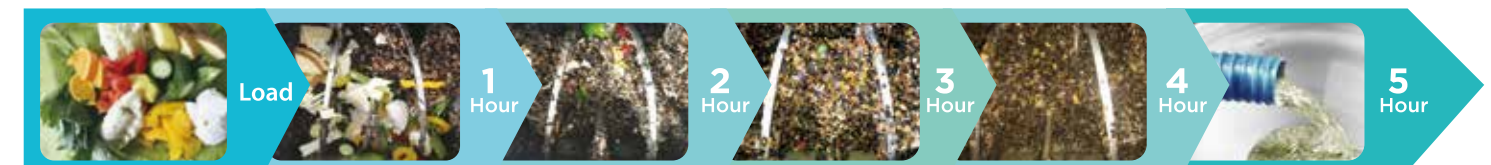
Healthy chinese cabbage fertilized with drained water



Cleaning drain pipes & sewage water

On-site Elimination in 6 hours

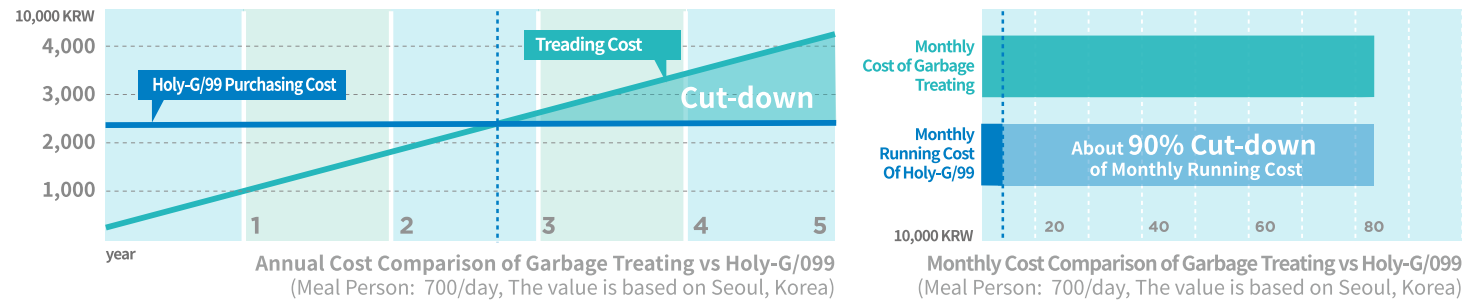
If the best condition for the growth of microorganisms of treating chamber is maintained, the unit can treat maximum throughput in 6 hours 2 times a day. Through the biological process, most of bio wastes are turned into water and drained out.



< Processing Efficiency Test & Result >

Low Running Cost!

Eco-friendly disposal unit Holy-G can minimize energy and water usage to the level of 1 citizen usage of Seoul, Korea. The Payback Period is 2.5 years in Korea. SOMABio's food waste disposal system provides a cost-effective solution for food waste disposal.



Patent Status & Certificate



- CA of Ministry of Environment
Effluent Test Report for Holy-G by KTR
- Public Procurement Service
Registered in KONEPS
Korea ON-line e-Procurement System
- Digital Innovation Awards 2012
- 특허청 Korean Intellectual Property Office
- 한국발명진흥회

Eco-friendly disposal unit Holy-G is certified by expertized CA. We have 8 relevant patents and 7 registered trademark and design.

Specifications

MODEL	Holy-G/070	Holy-G/099
Type	Enzyme-based disposal system	
Capacity (1 time)	70 Kg	99 Kg
No. of Meal Person	300~400	600~700
Unit	1,323(L) × 785(W) × 1,070(H)	1,520(L) × 820(W) × 1,150(H)
Dimensions (mm)		
Unit Weight (empty)	160kg	270kg
Color	Cherry Red / Metal gold	Cherry Red / Metal gold
Voltage	AC 220V	AC 220V
Average Power Consumption	0.5kwh	0.8kwh



SOMABio leads New Paradigm for Eco Living The Best Disposal Unit for Business Use, HOLY-G 070/099

- SOMABio's Own Fermenting Technology
For Clean Earth!
(Patented Biological Process)
- Verified Stability of Microorganisms
Patented Microorganisms!
- Stainless Steel Interior/Exterior
Extremely Durable!
- Insects-free
No odors!
No system clean out!
- In 6 hours for 1 time treatment
Hi-speed Treating!
- No need to remove sludge from unit
On-site Elimination of food waste!
- 90% Cut down of garbage treating cost
Low Running Cost!
- Drained water improve soil ecology
Eco-friendly Fertilizer!



* This material is made for better understanding of customer. * The specifications are subject to change without notice.
* The power consumption level can be different by operating condition
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