



LOVE
FOOD
hate waste



Product Benefits

- In a world with increasing need to protect our environment from harmful greenhouse gases, reduce our dependency on fossil fuels, and preserve our ever diminishing natural resources, BioHitech is committed to providing a sustainable solution to our customers.
- Historically, “green” technology has not always been an economical option. Going green with the Eco-Safe Digester™ is good for the environment and cost effective.
- **The Eco-Safe Digester will assist individual facilities in:**
 - **Reaching sustainability goals**
 - **Conserving resources**
 - **Realizing cost savings**
 - **Reducing their carbon footprint**
 - **Achieving operational efficiency**
 - **Improving workflow**
 - **Building a greener brand**



Eco-Safe Digester™ for Organic Waste



How it works:

1. A proprietary blend of micro-organisms and wood chips are loaded into the machine.
2. Up to 1200 pounds of organic waste such as fruits, vegetables, meats, poultry, fish, and other food waste are fed through the door daily.
3. A water spray and agitation helps digest the food waste into a liquid effluent.
4. Effluent drains into a conventional sanitary sewer system.



Advantages:

- No land-filling and resultant methane production
- Eliminates waste hauling, fuel consumption, and emissions
- Requires no outside real-estate for compactor, container, and vehicle service access
- No container pad cleaning required
- Eliminates odor and pest issues from outside container
- No trash bags are required since material is directly deposited into digester
- Waste is returned to eco-system as water



Design Specifications

- Available in three sizes
 - 400, 800, 1200
- Designed in stainless steel to:
 - Compliment industrial kitchen equipment
 - Provide long life
 - Resist corrosion



| SPECIFICATION | | UNIT | MODEL | | |
|---------------|--------|------------|------------------|------------------|------------------|
| | | | Eco-Safe 400 | Eco-Safe 800 | Eco-Safe 1200 |
| Capacity | | Pounds | 400 | 800 | 1200 |
| Dimensions | Length | Inches | 43 | 57 | 67 |
| | Depth | Inches | 36 | 44 | 44 |
| | Height | Inches | 48 | 52 | 52 |
| Power Source | | Voltage | 208 Volt 3-Phase | 208 Volt 3-Phase | 208 Volt 3-Phase |
| | | Amperage | 30 Amps | 30 Amps | 30 Amps |
| | | Horsepower | 0.75 | 1.5 | 2 |

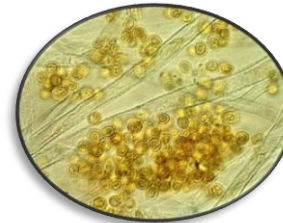
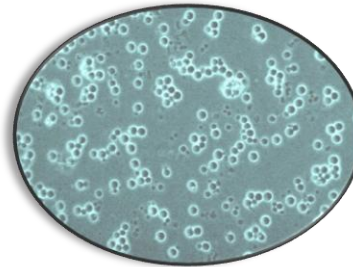
- **Aerobic Digestion Process**
 - **Oxygen, Temperature and Water present in process**
 - **NO chemicals used**
 - **NO solids are generated that need to be handled**
- **Habitat of woodchips**
- **Durable stainless-steel cabinet and components**
- **On-Board scale to monitor daily, weekly and monthly tabulations**
 - **Minimum wait time of 5 seconds before adding waste to ensure accurate weight tabulation**
- **Remote Monitoring Capabilities**
 - **Static IP Address**
 - **Central Point for tracking and monitoring results for multiple locations**
 - **Diagnosis of potential problems results in:**
 - **Quicker response time and minimized down time for customer**

- **Utility Usage (water and power) less than \$100.00 per month**
 - **Water Consumption**
 - 1200 unit - 300 gallons / day
 - 800 unit - 200 gallons / day
 - 400 unit - 100 gallons / day
 - **Liquid (effluent + water) Discharge**
 - 1200 unit approximately 400-500 gallons / day
 - 800 unit approximately 200-300 gallons / day
 - 400 unit approximately 100-200 gallons / day
 - **Energy Consumption**
 - 1200 unit - 605 kilowatts / month
 - 800 unit - 455 kilowatts / month
 - 400 unit - 230 kilowatts / month

Approved by numerous municipalities and Waste Water districts, NATIONWIDE

- **Micro-Organism Characteristics**

- ***Saccharomyces cerevisiae***
- ***Lactobacillus paracasei***
- ***Bacillus subtilis***
- ***Aspergillus oryzae***



No airborne contaminants present

Reducing/Diverting 1,000 pounds of food waste per day:

- **Reduces Hauling Costs (by reducing waste service frequency)**
 - **Reduces hauls by approximately 2 times per month**
 - (at \$200.00/haul = \$4,800.00 per year)
 - **Reduces landfill costs by 15 tons per month**
 - (at \$70.00 per ton = \$12,600.00 per year)
 - **Reduces or Eliminates compactor and/or container rental expenses**
- **Reduces janitorial supply costs**
 - **Eliminates 25 industrial trash bags per day**
 - (at .30¢ per bag = \$2,700.00 per year)
- **Reduces labor costs**
 - **Waste is handled at point of generation**
 - **Work flow conditions are streamlined**
 - **Staff time is re-allocated to other tasks**



Environmental Benefits



- Preserves valuable landfill space
- Eliminates the transportation of organic waste
- Eliminates truck traffic generating less pollution
- Reduces dependency on fossil fuels & foreign oil sources
- Reduces potential for groundwater and soil contamination
- Reduces harmful greenhouse gases that contribute to global climate change
- Returns thousands of gallons of water a year to our ecosystem
- Improves carbon footprint
- Makes a positive impact on the PLANET, a healthier future



Operational Benefits



- **Trash and recycling containers stay cleaner**
- **Dock stations remain dryer**
- **Reduced odor on site**
- **Reduced food source for infestation**
- **Effluent flows effortlessly through commercial grease traps**
- **Sewers benefit from effluent enriched liquid flowing downstream**
- **Sanitation and Safety is improved on-site**
- **Greater employee productivity, employee retention**



The following organic materials should NOT be fed into the machine:

- **Clam, Mussel and Oyster Shells**
- **Corn Husks and Cobs**
- **Fats and Oils**
- **Large Bones (T-Bone, Ham Bone, and Veal Shank Bone)**
- **Pineapple Skins and Tops**

The following in-organic materials should NOT be fed into the machine:

- **Cardboard, China, Glass, Gloves, Paper, Plastic, Rubber Bands, Twist Ties or Silverware**
- **Chemicals, Cleaning Agents or Boiling Water**

Frozen foods can be introduced with caution.

- **Maintaining the core temperature of the machine is a vital component of the digestion process. If too many frozen items are introduced at one time it could adversely affect the digestion process by dropping the temperature too low.**

Restrictions, continued

|  YES PLEASE |  NO THANKS |
|---|---|
| All Meat (raw or cooked), EXCEPT.... | Big Bones or Fat Trimmings |
| All Fish and Shellfish (raw or cooked), EXCEPT.... | Clam or Mussel Shells |
| All Fruit and Vegetables, EXCEPT.... | Pineapples or Corn Husks |
| All Bread, Cakes and Pastries, BUT NO... | Raw (uncooked) Bread Dough |
| All Prepared Foods, BUT NO... | Packaging of Any Sort |
| All Dairy Products | |
| All Other: Egg Shells, Coffee Grinds, Pasta, etc. | Fryer Oil, Hot Soup, Frozen Items, |
| | Twist Ties, Rubber Bands, Plastic Bags, Gloves, |
| | Paper, Cardboard, Glass, Cans, Silverware |

- One year limited warranty on parts and labor
- Performance optimization provided *Free of Charge*
- Worry-free technical support 24 hours a day

Annual Service Contract:

- **Micro-organisms replenished every two months**
- **Habitat replaced every six months (clean out/restart takes @ 1-2 hours)**
- **Scale and computer calibration completed with each visit**
- **General preventative maintenance**
 - **Cleaning of in-organic materials, mechanical review, and lubrication of bearings**

Customer requirements for preventative maintenance:

- **Visually inspect for in-organic materials daily and remove**
- **Monitor performance**
- **Ongoing attention to achieve best results**
- **Keep it Clean !**

Frequently Asked Questions



1. What is aerobic digestion?

A natural biological degradation and purification process in which micro-organisms that thrive in oxygen rich environments break down and digest the waste.

2. Is the technology proven and reliable?

Yes. Aerobic digestion is the most widespread process and most advanced method of recycling food, as it is reliable, cost effective and highly efficient in digestion food waste.

3. Are the micro-organisms harmful to the environment or people?

No. The organic micro-organisms are completely safe to touch and the moist warm moisture is safe to inhale.

4. Is the machine easy to operate?

Yes. After the Eco-Safe Digester is installed, a BioHitech representative will dedicate the appropriate time to train every staff member on the proper operating procedures.

5. Why should you use the Eco-Safe Digester?

The Eco-Safe Digester solution provides reliability in service, cost effectiveness, and a reduction of your carbon footprint. Converting your organic waste into a valuable resource is ecologically sound.

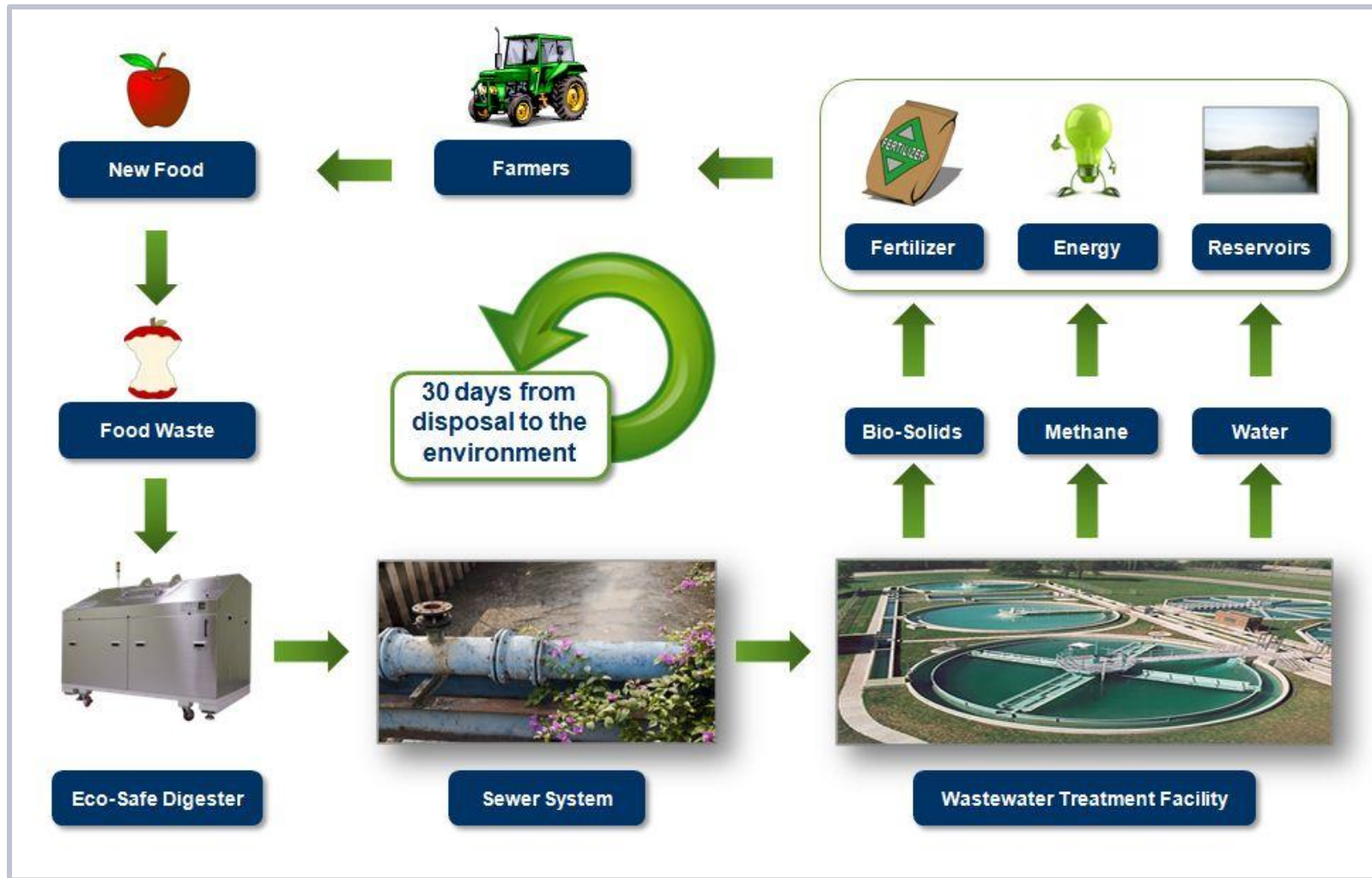
6. What types of businesses make ideal customers?

Any that produce high volumes of food waste. Examples are Chain Restaurants, Hospitals, Hotels and Supermarkets.

Prestigious Customers



An Environmentally Responsible Solution



BIOHITECH AMERICA

80 Red Schoolhouse Road, Chestnut Ridge, NY · 888-876-9300 · www.biohitech.com