

Company Overview

What We Do

Harp Renewables combines our years of electrical engineering expertise, inhouse environmental engineers and auditors with renewable, proprietary biotechnology to provide clients with a better, cleaner, and more sustainable alternative to traditional waste disposal while reducing overall costs and improving your environmental footprint.

Years in Global Waste **Equipment Manufacturing**

Years in Development & Construction

On-site US Food Waste Treatment

Fortune 100 Cos. & Start-Ups

Our Products and Services



Harp Bio-digesters



Soil Product Enhancers



Upcycle Projects



Harp Electrical Engineering



Biomass Boilers



LED Lighting

Harp's Bio-Technology

How It Works

The Harp Bio-Digester's on-board processor controls the internal parameters, such as temperature, pH, moisture, oxidation, and surface area, for optimum organic breakdown, achieving a decomposition phase within <24 Hours.

70-85%

Reductions

Weight and Volume

24 Hours

Processing Time



1 Kg Food Waste

After 24 Hours

+- 250g Biofertilizer

Harp's Bio-Technology



ables

Speed <24 hours

The Harp Biodigester biologically breaks down your food waste, performing hydraulic, metabolic and remineralising phases of organic decomposition within 24 Hours



Automatic Environmental and Waste Reporting

Harp Bio-Digesters on-board system records and forecasts both your waste statistics and carbon footprint reductions



Heats to 70°C for Pathogen Reduction

The on-board program and array of environmental sensors monitor and control all the internal parameters



Lowest emissions

Fitted with smart sensors and a complete filtrations systems, the Harp Bio-Technology produce the lowest environmental emissions of any other organic waste process



Sequester More Carbon and retains more nutrients (High N P K)

By drastically lowering any nutrient volition, we can capture and mineralise more nutrients into a stable form within the End-Product, producing a higher-value fertilizer

Harp's Bio-Technology

Features





Touch Screen Computerised Control

An easy-to-use on-board touch screen display shows the status, history and performance of the Bio-Digester



Active Carbon Filtration System

Harp's Filtration System treats all potential environmental pollutants by ensuring they are below 1 part per million



Load Cells for Automatic Waste Reporting

Door and Weight Sensors track and record times, dates, volumes and weights onto a downloadable CSV file



Programmed PAS100 Quality Control Auto Output

Quality Control parameters and safeguards are built into the system programming to ensure quality output every time



Auto Switch OFF Door Catch Safety Feature

Every Bio-Digester are fitted with safety measure to ensure a safe working environment



Automatic Door Hydraulic Lifter (Optional)

Bin Tipper and Automatic Hydraulic means that a Harp Bio-Digester can be operated through a single push button



Lockable Caster Wheels

Every Bio-Digester are fitted with Lockable Caster Wheels for ease of installation, access and maintenance



Bio-Digester™ Product Line

Specifications	CX1	CX2	CX5
Daily Weight Input Capacity (Lbs./Day)	220 Lbs.	440 Lbs.	1,100 Lbs.
Monthly Input Capacity ¹ (Tons/Mo)	3.3 Tons	6.6 Tons	16.5 Tons
Monthly Bio-Product Production ² (Tons/Mo)	0.8 Tons	1.6 Tons	4.1 Tons
Equipment Dimensions (Length x Depth x Height)	53 x 44 x 47 Inches	75 x 49 x 48 Inches	154 x 67 x 60 Inches

Specifications	CX10	CX20	CX50
Daily Weight Input Capacity (Lbs./Day)	2,200 Lbs.	4,400 Lbs.	11,000 Lbs.
Monthly Input Capacity¹ (Tons/Mo)	33 Tons	66 Tons	165 Tons
Monthly Bio-Product Production ² (Tons/Mo)	8.2 Tons	16.5 Tons	41.2 Tons
Equipment Dimensions (Length x Depth x Height)	197 x 70 x 74 Inches	223 x 86 x 84 Inches	259 x 197 x 133 Inches

¹ 30-day month

² Assumes 75% conversion; 25% residual material by weight

End-Product

Sequestering more carbon and producing a higher value Soil Enhancer / Bio-fertilizer



Harp's accelerated thermal process minimises the volatilisation of Carbon to CO²eq. This is achieved by our proprietary enzymes ensuring the biological pathway for the carbon is mineralized, trapping more carbon into the substrate.



With 100% more organic carbon locked within our product, our End-Product, on average contains 48% Total Organic Carbon, whereas most other soil products have, on average, between 18-30%.



Harp's autothermal accelerates thermophilic aerobic digestion or (ATAD) process rapidly mineralised nutrients into a stable form within the substrate.

ECO-SMART SOLUTIONS WITH PEOPLE **AND PLANET IN MIND**

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