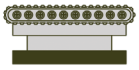
Containerized Compost System

The Containerized Compost System (CCS) composts sewage, septage, and other putrescible organic materials in an entirely enclosed environment. Featuring a modular web based process control system (WebMACS), the CCS facilitates natural degradation processes to convert Class B pathogenic waste into safely disposable and marketable Class A compost. The system comprises a mixer, loader and computer-controlled CompTainers, handling waste from its raw or treated form to its final curing stage. Green Mountain Technologies' airtight Intermodal CompTainers provide highly efficient aerobic composting as well as cost-effective odor control, leachate containment, and waste conversion at a fraction of the price. Because the CompTainers are roll-off vessels that can be run individually or in parallel, the CCS can be sized to fit facilities processing anywhere from 2 to 150 tons of waste per day.

THE CCS PROCESS

Mixing
Feedstocks are ground in an industrial grinder achieving proper porosity, moisture content, and nutrient balance

STEP 01



Loading
CompTainers are filled with a ground feedstock "mix" via CompLoader

STEP 02

Composting
Feedstocks are aerated and actively composted for two to four weeks

STEP 03

Trucking
CompTainers are loaded onto a roll off truck and dumped on or off site for post processing

STEP 04

Curing
Compost is piled and cured for aproximately one month

STEP 05

Sale
You have successfully transformed class B pathogenic waste into marketable class A compost!

STEP 06

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CCS Design Features

CCS Benefits

The robust CCS operates at the junction of cost effectiveness and flexibility, enabling its almost anyone to create beautiful compost from some of the most challenging feedstocks:

- Odor and Leachate control — Custom stainless steel CompTainers are designed to meet individual customer needs and enable efficient aerobic composting, complete odor control, and leachate containment.
- Advanced Controls — GMT's WebMACS gives the user precise temperature and aeration control as well as live data logging anywhere in the world with an internet connection.
- Flexible Design — Each Custom CompTainer can be loaded onto a rolloff truck, enabling efficient materials handling and offsite mixing or curing.
- Modular Design — Custom CompTainers can easily be added to the system to meet growing demand.
- Durability & Reliability — With more than one hundred CompTainer's sold throughout the world, the CCS has demonstrated its capabilities and reliability over time.

Suggested Add-Ons

- CompLoader — The gas powered and highly mobile Comploader is the most effective way to load feedstocks into a vessel. The mobile undercarriage allows operators to efficiently position the attached conveyor at the appropriate point within the vessel. The built in flail at the end of the conveyor further blends feedstocks and distributes them through the container, improving porosity and creating beautiful finished products.
- Mixer or Grinder — To optimize the composting process feedstocks must be fluffed, homogenized, and ground before they begin active composting. Through nearly 30 years of composting GMT can help you find the best mixing system for your needs.

The CompLoader and Mixer

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CCS Specifications

CompTainer Specifications	CT-40	CT-50
Insulation	R-18 Urethane Foam	R-18 Urethane Foam
Processing Capacity	40 cubic yards	50 cubic yards
Width	8 feet 3 inches	8 feet 5 inches
Height	8 feet 6 inches	9 feet 4 inches
Length	23 feet 8 inches	25 feet 8 inches
Weight	Aprox. 8500 lbs.	Aprox. 12500 lbs.
Interior Construction	304 Stainless Steel Liner	304 Stainless Steel Liner
Aeration Ports	6" Camlocks	6" Camlocks
Roll-Off Platform	Cable or Hook Lift	Hook Lift Only
Price Range per Vessel	$55,000 - $80,000	$60,000 - $85,000

Aeration and Control System Specifications	
Feasible System Capacity	750 to 50,000 Tons per Year
CompTainers per System	2 to 100
Control Panel	Programmable PLC in NEMA 4x panel
Software	WebMACS
Power Requirements	~1 HP per vessel
Ducting	PVC
Airflow Reversal System	GMT's Patented Rotary Damper
Per Vessel Airflow	100-200 CFM
Price Range	Quoted (Varies dramatically with capacity)

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