

CV Composter™



engineered **COMPOST** systems

Containerized In-vessel Composting System

The CV Composter™ (Containerized Vessel) is a modular in-vessel composting system designed for small, to medium-scale composting facilities that require comprehensive environmental control. It requires minimal infrastructure and the modular approach easily adds additional capacity to accommodate growth. The CV's advanced control system and unique aeration design optimizes compost stabilization and pathogen reduction rates; while capturing and dramatically reducing VOC, GHG, and odor emissions. The CompTroller™ aeration control and monitoring system requires little or no operator intervention during composting, and automatically records pertinent data for every compost batch.

Standard Features

- A batch system accepts a broad variety of feedstocks at irregular loading rates
- Excellent odor control with completely sealed aeration design and biofilters
- Constructed for a long service life
- Built-in condensate management system
- Semi-automated vessel loading conveyor system
- Integrated vertical or horizontal auger compost mixer



Vessels

The CV vessels are fabricated with stainless steel interiors and stainless or galvanized metal exteriors. The 40 cubic yard vessels are designed for compatibility with local roll-off system chassis. The vessels are completely sealed and collect leachate/condensate in the aeration floor. The vessel walls, ceiling, floor and doors are well insulated.

Aeration

The aeration system provides reversing and recirculating process airflow to control and maintain uniform biomass temperatures. Process air is scrubbed through an ECS designed biofilter built on site. All components in contact with the compost's corrosive airstream are made from either stainless steel or polymeric materials. The aeration system is designed to conserve energy with variable speed fans, a unique low-friction aeration floor, and adaptive control strategies. Motorized dampers control airflow and direction to each vessel. Damper positions are automatically set by the control system.

Control

ECS' CompTroller™ is an automated aeration control and monitoring system that is operating at all ECS compost installations. It is designed to achieve regulatory compliance; offers operators a broad range of process options; and provides each vessel with independent and automatic control for achieving process goals. The CompTroller™ is remotely accessible via the web and is flexible, robust, and keeps your data safe.



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- Facility Design
- In-Vessel
- ASP
- Automated Controls
- Client Support