

AC Composter™



engineered **COMPOST** systems

Covered ASP (CASP)



The AC Composter™ (CASP or Covered Aerated Static Pile) system provides facility operators with a cost-effective tool for controlling odors, VOC

and Greenhouse Gas emissions; and for maintaining optimal pile conditions during composting. The AC Composter™ system combines an impermeable fabric cover with standard ECS components including the CompTroller™ (a web based aeration control and monitoring system), options for Low Friction In-Floor or CompDog™ aeration systems, and biofiltration.

The AC Composter™ is appropriate for a wide range of facility sizes, and virtually all feedstocks. It can be used outside in discrete piles/zones; with a bunker-wall configuration to reduce the facility footprint; or inside buildings to control the odor and humidity associated with in-building ASP systems.

The AC Composter provides:

- Complete capture and excellent reduction of VOC and Greenhouse Gas emissions
- Superior odor control
- Minimized evaporative water losses from the biomass
- An effective barrier against vectors (birds, rats, flies)
- Accommodates a broad range of aeration rates and process control options

AC Cover

The AC Cover is made of tough, UV resistant, and waterproof fabric.

The cover includes straps for handling and securing. The AC Cover is placed and removed with an ECS StraddleWinder™ (for large facilities); or ECS SideWinder™ (for smaller facilities). The advantages of the AC Cover include:

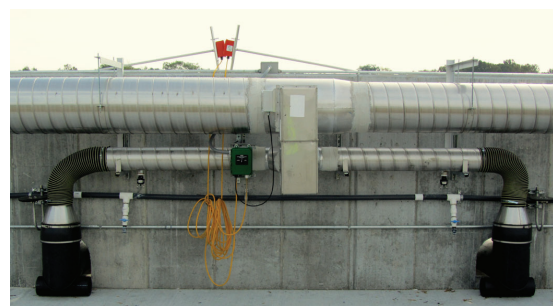
- Does not absorb water and become heavy
- Airflow characteristics do not change with fabric soiling
- UV Protected and field repairable for long service life
- Largely held in-place by the aeration system (negative suction)

Aeration, Control and Monitoring System

The AC Composter uses ECS' proven CompTroller™ control technology—a web-based and automated compost process control and monitoring system that provides a window into current facility conditions and trend-line process data. Solving real-world problems using real-time web based controls and remote monitoring is easy using CompTroller™ software. Compost pile temperature data and process notes are collected, stored, and easily tracked from start to finish. Negative aeration is automatically controlled per Operator chosen set-points. The exhaust process air captured by the AC Cover is scrubbed in a biofilter. The aeration rates can be set lower to conserve moisture and fan power, without releasing odors; or higher to reduce temperature and increase drying rates.

Aeration Systems

The ECS aeration systems use centralized fans connected to variable frequency drives (VFD) that provide continuous (24/7) metabolic oxygen and cooling for the aerobic composting process. The CompTroller™ automatically adjusts the speed of the fans to maintain constant pressure in the supply and exhaust plenums, and controls electrically actuated dampers that control the amount of air drawn through each compost pile based on its temperature profile.



Aeration Floors

The AC Composter™ is offered with three different floor aeration options: Low-Friction In-Floor, CompDog™, and pipe-on-grade. Factors such as labor requirements, facility size and cost help determine the appropriate aeration floor choices for each project.