

AC Composter™ and CompDog™



engineered **COMPOST** systems

Covered ASP and Pipe-Less Aeration

The AC Composter™ (Covered ASP) and CompDog™ (pipe-less floor aeration), provide facility operators with a cost-effective tool for controlling odors, VOC and Greenhouse Gas emissions; and also for maintaining optimal pile conditions during composting. The AC Composter™ system combines an impermeable fabric cover with the ECS CompTroller™, options for in-slab or CompDog™ aeration floor, 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 Straddle Cover-Winder (for large facilities); or with a Front End Loader Assist Cover-Winder (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)



CompDog™ (pipe-less aeration system)

The CompDog™ aeration floor system is an innovative and cost-effective alternative to using in-slab or above-grade pipe. The CompDog™ uses an inflatable form to create aeration vaults under an ASP pile. The ASP pile is built on top of the CompDog™ and is allowed to settle overnight. In the morning the CompDog™ is removed and leaves behind an aeration vault used for air distribution through the biomass. The CompDog™ system includes a CompDog™ Roller and Inflation and Deflation mechanisms. ECS also offers an In-Slab aeration floor that collects condensate and minimizes labor.

Aeration, Control and Monitoring System

The AC Composter uses ECS' proven CompTroller™ control technology. Compost pile temperature data is collected and stored on the CompTroller. The batches of compost are easily tracked through the facility 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. Prior to removing the cover the aeration rate is increased to lower pile temperatures and raise Oxygen levels to greatly diminish the potential for odor release.

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ECS PATENTS The AC Composter™ covered aerated pile system and CompDog™ aeration floor system are covered by US Patents 7,642,090, 7,713,731, and other US and foreign patents pending.

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