

Aerated Static Pile (ASP) Systems



engineered **COMPOST** systems

The ECS ASP Systems offer great versatility and reliability. They are appropriate for primary and secondary composting; small to large-sized facilities; and for any feedstocks including food waste and biosolids. They have a smaller footprint, faster process time, and better odor control when compared with windrow or static pile compost systems.

ECS has an innovative array of specialized ASP components, such as the CompTroller™ (automated aeration control and monitoring system); RF Teleprobe™ (wireless temperature transmitting technology); In-Slab and CompDog™ aeration floors; and the AC Composter™ (Covered ASP System) that features an impermeable cover combined with a negatively aerated compost process.

ASP System capabilities include:

- Excellent VOC, GHG and odor control using site-built biofilters
- Condensate management and collection
- Batch or continuous-flow processes
- Ability to process feedstocks at irregular loading rates
- Reversing or single direction aeration
- Discrete piles, mass-bed or bunker wall configurations
- Accommodates growth and expansion easily

Aeration

The aeration system distributes air through the biomass to enhance composting conditions. All process air exhausts through an ECS designed biofilter. All aeration

components in contact with the compost's corrosive exhaust air-stream are made from stainless steel or polymeric materials. The aeration system is designed to conserve energy with variable speed fans, and adaptive control strategies. Motorized dampers control airflow and direction to each pile. Damper position is automatically set by the control system.



Aeration Floors

ECS offers several different below and above grade aeration floors that distribute air through the biomass and are compatible with loading and unloading using front-end loaders. Our In-Slab channel aeration floor collects condensate/leachate, is plug-resistant, and is easily maintained. The CompDog™ floor system uses an inflatable form to create aeration vaults under an ASP pile. In-floor sparger and pipe-on-grade options are also available.



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 pile/zone with independent and automatic control for achieving process goals. It allows the operator to set aeration rates very low (anoxic conditions) if conserving moisture and fan power is the highest process-setting priority; or higher to reduce temperature and increase drying rates. The CompTroller™ is remotely accessible via the web and is flexible, robust, and keeps your data safe.



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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