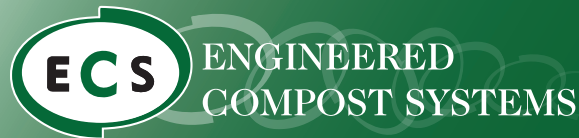


# Aerated Static Pile (ASP) Systems



RELIABLE • AFFORDABLE • SUSTAINABLE

The ECS ASP's are proven, reliable and offer great versatility. They are appropriate for primary and secondary composting; small to large sized facilities; and, for any feedstocks (garden/green waste, food waste biosolids and industrial wastes). They are available with single and/or reversing aeration systems and in various configurations (discrete piles, mass-bed, and bunker-walls). They have a smaller footprint, faster process time and better odour control when compared to static or traditional windrow compost systems.

ECS offers an innovative array of specialised 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 temperature controlled and negatively aerated compost process.

## Standard Features

- Excellent VOC, GHG and odour emission control using site built biofilters;
- Condensate management and collection;
- Batch or continuous-flow processes that allow great management flexibility;
- Processes a broad variety of feedstocks and at irregular loading rates;
- Reversing or single direction aeration;
- Easy expansion for accommodating additional growth and capacity.



## Aeration

The aeration system provides process air-flow to control and maintain uniform biomass temperatures. All process air exhausts through a biofilter. All components in contact with compost's corrosive air-stream are either stainless steel or polymeric materials. The aeration system is designed to conserve energy with variable speed fans, and adaptive control strategies. Motorised dampers control airflow and direction to each pile/zone. Damper position is automatically set by the control system.



## Aeration Floors

ECS' in-slab aeration floor collects condensate/leachate, is plug-resistant and is easily maintained. It delivers uniform air distribution and is compatible with loading and unloading using front-end-loaders.

The CompDog™ aeration floor system is a 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.

## Control

ECS' CompTroller is an automated aeration control and monitoring system that is operating at over 30 compost installations in North America. 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. The aeration rates can be set very low (anoxic conditions) if conserving moisture and fan power is the highest process-setting priority, and then increased prior to moving the pile to lower the temperatures and raise the Oxygen levels (to reduce odour generation). The CompTroller is remotely accessible via the web; and, is flexible, robust and keeps your data safe.

*The AC Composter™ and CompDog™ have patents issued and pending.*

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