BAP™ Compost System

engineered COMPOST systems

The ECS BAP™ (Basic Aerated Pile) provides the process control and monitoring advantages of a full featured aerated composting system but at a significantly lower capital cost.

Process Advantages

The BAP maintains high Oxygen levels and limits temperatures within the pile to reduce the generation of odors and VOC's, while enhancing stabilization rates. Emissions can be further controlled with the addition of a moist biofilter top layer (recent research has shown capture and control rates above 95%).

Design Features

The BAP provides a wide range of aeration rates with a mechanical design that minimizes fan power requirements. Automated control and monitoring is delivered by the ECS CompTroller™ that allows the operator to: optimize aeration regimes, achieve regulatory compliance, monitor the process via a simple web-based interface (both on-site and remotely), and easily get comprehensive technical support.

Description

The BAP features a positive aeration system with a single load-following fan serving a group of zones ("Fan Group") via a plenum. This simple system is designed for years of low maintenance service. The CompTroller™ automatically controls and monitors pile temperatures, zone aeration rates, and the pile surface irrigation system (to maintain moisture in the biofilter layer). It comes in pre-engineered standard sized Fan Groups with nominal capacities of 1,250 yd3, 2,500 yd3, and 5,000 yd3 of aerated compost. Additional Fan Groups can be readily added within the CompTroller™ architecture for expansion.

The standard BAP aeration floor is user-supplied pipe-on-grade and can be implemented in mass-bed, bunker, or free-standing piles. Other floor configurations are available.

The BAP Composter is designed to:

- Retain the feature rich ECS aeration control and monitoring technology
- Maintain moisture in the pile cover layer
- Meet regulatory requirements
- Minimize site design and CAPEX
- Ship quickly
- Simplify installation and construction
- Minimize fan power cost
- Provide aeration system outputs of 4cfm/cy max, 2.5cfm/cy average.
- Facilitate remote technical support

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

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