

COMPOSTAIR™

Active composting in aerated static piles



- Modularity and robustness of the system
- Ensures that proper aerobic conditions are maintained
- Optimal composting parameters
- Simpler operations than windrowing
- Less surface area required compared to conventional windrowing
- Destruction of pathogens and weed seeds
- Less leachate requiring treatment
- Low energy consumption.

FIELD OF APPLICATION

Municipal, industrial and agri-business organic wastes.

TECHNOLOGY DESCRIPTION

The CompostAir™ treatment system is one of the technologies based on forced aeration of static waste piles.

A base CompostAir™ module includes two side-by-side reinforced concrete cells closed on three sides. These cells are equipped with a perforated floor used to aerate the waste piles evenly and to accelerate the thermophilic composting phase. A conduit system sends air to each cell and removes liquids that may percolate from the organic matter.

Each cell has its own blower. These blowers are managed by a PLC which ensures optimum blowing time with relation to climatic conditions.

The CompostAir™ system is currently used in several Quebec and New-Brunswick municipalities.

PERFORMANCE AND EFFICIENCY

The CompostAir™ system can treat several hundred to several thousand tons of organic materials per year. This system is modular and flexible; the total retention time in the cells may vary from 4 to 6 weeks. The CompostAir™

system requires 8 times less surface area and is twice as fast as a conventional windrowing platform. CompostAir™ can also capture the leachates generated during the thermophilic phase of composting for their possible reinsertion into the process.

