



- Efficient management of odours, pathogens and weeds
- No lixiviate to treat (in-vessel process)
- Very rapid transformation
- Optimum aerobic conditions and regular mixing
- Unique concept of integrated building
- Heat recovery (optional)
- Modular system; can be expanded to treat up to 100,000 humid metric tons per year
- Compact system reducing the surface area required.

### FIELD OF APPLICATION

Municipal, industrial and agribusiness organic wastes (e.g. biosolids).

### TECHNOLOGY DESCRIPTION

The RobotCompost™ treatment system is an evolved composting technology combining automated agitation and forced aeration through a series of horizontal beds. Each horizontal bed has its own air diffusion system to maintain optimum aerobic conditions of the organic mix to be processed.

Above the walls, an exclusive mechanical agitator on rails is used to homogenize the material while moving it from the entrance to the outlet.

At the outlet of the horizontal beds, a Conporec Inc. exclusively designed module automatically sends the raw compost toward the maturing zone. This module also allows the agitator to be automatically transferred from one horizontal bed to the next.

Above the horizontal beds, an isolated captation chamber collects and sends the process gases to the biofiltration processing unit.

The entire operation is controlled by a PLC. It can be coupled to an expert graphic operational software package used to collect the control parameters in real time and to operate the complex remotely via a modem.

Several other peripherals can be added to the base equipment, namely a heat recovery unit, a biofilter, wells to clean and service the mixer, and a weather station. This whole ensemble is an adaptation of horizontal bed technology; its operational and energy efficiency give it significant competitive advantages.

### PERFORMANCE AND EFFICIENCY

The RobotCompost™ automated composting technology can process more than 100,000 metric tons of humid organic wastes per year. This technology maximizes the thermophilic phase efficiency of the composting process, which includes a 21-day silo residence time.

