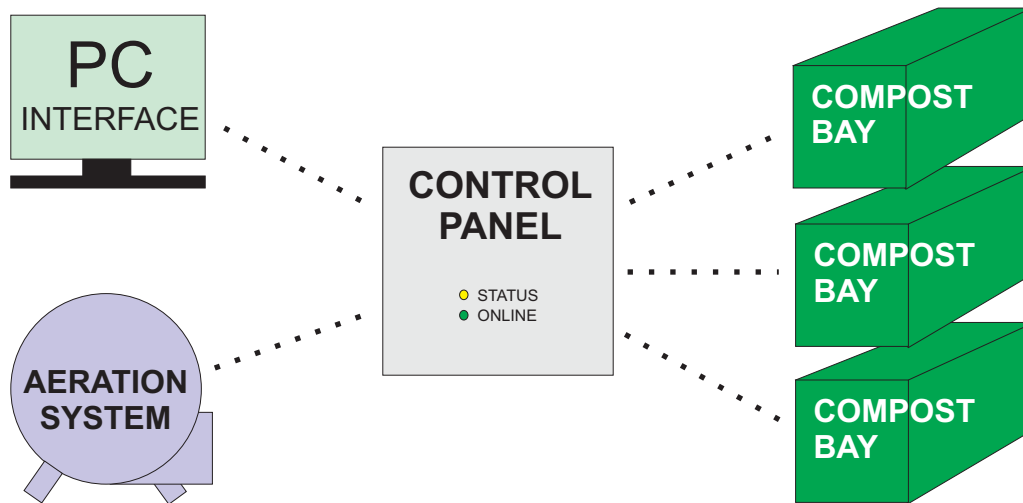


# The CompDACS™

## Data Acquisition & Control System



### CompDACS System

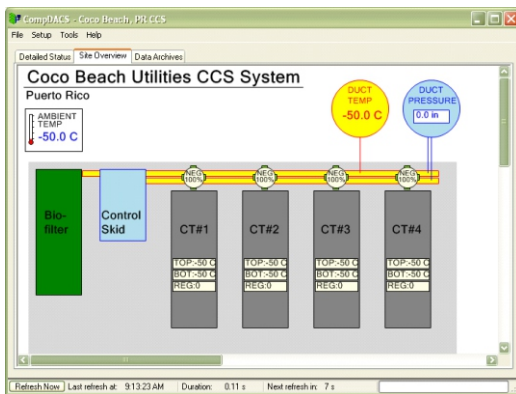
The CompDACS™ (Compost Data Acquisition & Control System) is Green Mountain Technologies' state of the art computerized control system for compost process control and monitoring.

The primary aeration control strategy utilizes a VFD to regulate blower speed to maintain constant duct pressure. Secondary aeration control is via a 3-position damper which regulates volume of air flow and direction of air flow to each composting container. The system includes a main control panel, field control panel(s), and field J-boxes. All panel-to-panel communication is via Ethernet cable

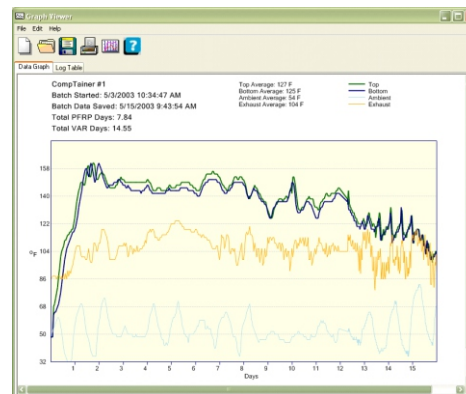
The CompDACS continuously monitors and records the temperature of each compost batch, and successively implements up to four user-defined time/temperature process goals. PID closed loop logic is used to provide real-time control of damper positions and blower speeds.

This system receives commands and displays information through a graphical user interface (GUI) which runs on Windows™ based computers. The interface software graphs temperature data and prints reports to meet EPA 503 requirements for Class A compost.





REAL-TIME SYSTEM STATUS



TEMPERATURE GRAPH

## Specifications

### Main Control Panel

Enclosure  
Controller  
Communications  
Data Storage  
I/O Connectivity

Electrical Requirements  
Expanded Capacity

NEMA 4 Indoor/Outdoor Rated  
Real-time embedded industrial computer  
9 port industrial ethernet hub  
Non-volatile internal memory  
Supply & exhaust blowers, fresh air & exhaust dampers & temperature probes  
2A 120 VAC  
1-24 bays (via field panels) / 1 aeration supply loop

### Field I/O Panel

Enclosure  
I/O Capacity  
Communications  
Electrical Requirements

NEMA 4 Indoor/Outdoor Rated  
1-4 bays (1 damper & 2 probes each)  
Ethernet to Main Control Panel  
2A 120 VAC

### Temperature Probes

Probe Construction

Accuracy  
Sensor type

42" long, 9/16" diameter stainless-steel (custom lengths available)  
+/- 0.4°C @25°C  
RTD with transmitter in probe head

### PC Interface & Graphing Software

Requirements

Pentium w/ Windows ME, 2000 or XP & network card

We also offer custom configuration services and complete aeration systems with blowers, dampers, etc per site requirements. Call us to discuss your facility's needs or to request a quotation.

