



Volume Two / Issue 1  
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## HOT PROJECT

*In This Issue...*

**PRODUCT**  
3V™ Packaged Control  
System

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### Carrier's 3V™ Packaged Control System and the City of Charlotte team-up to produce comfort and efficiency

Of the many attractive features that make Charlotte one of the nation's most livable cities, its climate and natural cityscapes rank among the highest. The responsibility of maintaining the City's flora and fauna falls on the staff who work in the City of Charlotte Landscape Management Facility. The 25-year-old structure serves both as office space and field equipment storage. In 2003 the building underwent extensive renovation, which included its HVAC system.

Shortly after construction finished, the City of Charlotte's HVAC Controls Technician, Carlton Winter, began receiving complaints regarding uncomfortable temperatures from the employees working inside. "They were either too hot or too cold throughout any given workday," Winter explained. "And after a thorough on-site inspection, I knew that we had a bigger problem."

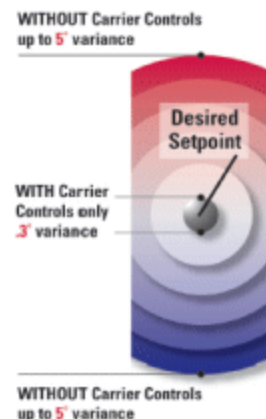
Along with comfort issues, the air handling units (AHUs) weren't operating efficiently, driving up the facility's operating costs. This issue was of particular concern as the City of Charlotte has a very aggressive program of facilitating efficient energy use.

It was then that Jeff Swiderski, Carrier Carolina's Commercial Controls Manager, stepped in. "While the building had non-Carrier equipment, our controls could solve their problems," Swiderski explained. To correct the problem, Carrier's 3V Universal Controllers were used on two AHUs. Carrier's VVT Zone and Bypass Controllers were used on zone and bypass dampers. CO2 sensors were installed in the return duct system to monitor building occupancy. To retrieve operational information and to generate managerial reports, Carrier's Data Collection module was utilized.

"Instead of the desired setpoint fluctuating as much as five degrees like it used to, our controls keep it within three-tenths of a degree," Swiderski said. "The employees are much more comfortable and the equipment is running more efficiently." To complete the system, Carrier's internet technology and ComfortVIEW™ software allow the city to manage the system via their internal network or by using the World Wide Web.



### Precise Comfort with Carrier Controls



## BENEFITS AT A GLANCE

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### For Building Owners & Managers

- Reduced energy consumption
- Reduced service and maintenance expenses
- Building usage access from anywhere
- Installation flexibility
- Lower utility cost



Zone Controller

### For Consulting Engineers

- Ensures proper ventilation to meet ASHRAE 62-99
- Reliable performance
- Reduced energy consumption
- Built-in flexibility allows easy upgrading
- Streamlined installation



System Pilot

### For Contractors

- Pre-engineered algorithms simplify system setup
- Reduced installation costs
- Remote access
- Increased technician productivity
- Easy system access from one central System Pilot
- Easy upgrading
- Seamless operation with system components

[Learn more](#) about the 3V Packaged Control System or [download](#) the complete case study.

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