



**Decreased Humidity
And Increased Savings**



A SMART SOLUTION FOR A GIFTED SCHOOL

Sycamore School in Indianapolis, Ind., provides a full-time educational environment for gifted children, with the hope that young people who attend will make major positive contributions to their communities and the world in the years ahead. The school's campus, originally purchased in 1996 with one building at 56,000 square feet, had recently expanded to 118,000 square feet. Old HVAC equipment was cooling the air faster than it could remove humidity. School administrators turned to local HVAC expert DEEM, who recommended the smart solution of Honeywell's Spyder™ Controller.



Honeywell Spyder Controllers offer affordable, flexible control for today's systems, but they're also designed for control as systems evolve.

The Goals

- Reduce humidity levels
- Refine old HVAC system at affordable cost to school

Honeywell Products Installed

- (4) PVL6436A Spyder™ Controllers
- (1) PUL6438 Spyder Controller
- WEB-403-AX Controller
- (1) H7635A1006 Humidity Sensor
- (8) D2 Series Zone Dampers
- (4) T7770C1002 Wall Modules

The Results

- Humidity is 50-60% down from 90%+
- Saved 51% over other proposed solutions

Contractor

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The Challenge

Sycamore School was equipped with oversized HVAC equipment that cooled the school's air faster than humidity could be removed. The result was humidity levels that ranged from 80-90% on most days, sometimes higher. In fact, the inside humidity lagged two days behind the outside weather. "Potpourri was rehydrating, papers were curling up," said LeRoy Richins, the school's plant manager.

A change was obviously in order, but the school's administrators wanted to fix the problem at an affordable price. Several options were discussed, but the clear solution for Sycamore School was a Honeywell Spyder™ Controller.

The Spyder Solution

Richins looked at various options before settling on the Spyder Controller. "Each contractor recommended something different," recalled Richins. "From sealing the air holes to installing return ducts to insulating the return plenum, we heard it all, but nothing addressed the problem completely and most of it was too expensive." One contractor even suggested replacing the old system and installing an individual air conditioner in each classroom.

Finally, Richins approached DEEM with the problem. "DEEM had just won the bid on our other contract work, so I decided to pitch the issue to them," Richins said. "Their solution — Spyder — was the best solution at the most affordable price."

DEEM chose Spyder Controllers for two simple reasons, said Erik Merz, project manager for DEEM. "Spyder is much more affordable than other unitary controllers, and it's limitless in the amount of programmability it offers," he noted. Merz worked closely with Honeywell Contractor Development Specialist Roger Rebennack to develop a value-drive solution using the technology and innovation only found in today's Spyder controller. The five Spyders that were installed allowed individual monitoring of classrooms to ensure that each space was the ideal setting for productive learning and creativity.

Moreover, the installation of Honeywell products saved Sycamore School 51% over other solutions that were offered. "Replacing the existing rooftop unit was an unnecessary cost when we could just add the Spyder in and control the equipment run time that way," Merz said. And DEEM knew they could return to the school and make adjustments if needed with the Spyder.

The Installation

"This was our first installation of Spyder Controllers, and it was very successful," said Merz. Only two DEEM employees were required for the job — one to install the equipment and the other to program the controls.

Five Spyders were installed on one rooftop unit to control four zones. DEEM programmed the controllers using the WEB controller and installed several D2 Series zone dampers to help further manipulate the air conditions in various areas of the building. "We knew programming the system for Sycamore School may be trial and error, but we were able to increase the compressor's run time without overcooling the building, and we eliminated the need for a dual-bulb thermostat by using four T7770C1002 wall modules," noted Merz. "The teachers are all very happy with the humidity and the temperature in their classrooms now."

"Working with DEEM was the right decision for Sycamore School," said Richins. "They did a great job of putting together a realistic proposal and installing the system to achieve the desired result."

The Results

The installation of a Honeywell Spyder Controller solved the problems at Sycamore School. The humidity levels now range from 50-60%, creating a more comfortable environment for the students, teachers and administrators.

Best of all, the school was able to have the Spyder system installed at an affordable cost that allows them to keep humidity down. "It's been so effective that the administrative air conditioning unit has now been wired into Spyder, and we're looking to install more units around the campus to control our other buildings," said Richins.

And with everything from plenty of inputs and outputs to built-in DC power and programming flexibility, the Spyder Controllers at Sycamore School will give them cost-efficient control for years to come.

Find out more

For more information, please contact your
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