

# GREER HIGH SCHOOL

## Energy Saving

### The Challenge

Greer High School was utilizing an outdated HVAC system that was bringing in excessive amounts of outside air, resulting in (1) wasted energy, (2) high humidity, and (3) mold growth.

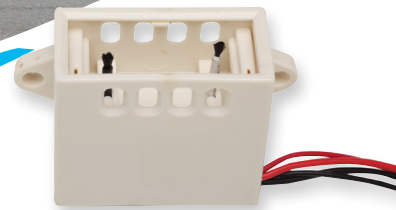
### The Solution

By utilizing the ASHRAE Indoor Air Quality Procedure, the school was able to incorporate GPS' needlepoint bipolar ionization (NPBI) technology to reduce the amount of outside air needed to condition the building. The GPS-FC-2™ and the GPS-iBAR® were the ionization systems installed to reduce the intake of outside air while improving the indoor air quality.

 **PATHOGENS**  
KILLED

 **ENERGY**  
SAVED

**\$10,000**  
**ANNUAL**  
**ELECTRIC**  
**SAVINGS**



### The Results

The school realized an annual energy savings of approximately \$10,000 by using GPS' electronic air cleaners that allowed for a reduction in the per person outside air intake from 17 CFM to 5 CFM. The use of NPBI technology resulted in a lower capital expenditure while reducing the overall energy expense, thus providing the least costly ownership solution. Mold growth was abated by reducing the humidity level of the indoor air, creating a safer and cleaner space for the students and teachers.

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**SOLUTIONS**

*Engineering Air for a Cleaner World™*

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