

CASE STUDY

Plasma Air Eliminates Odors in Strength and Conditioning Facilities and New Locker Rooms at Dorman High School

- Eliminated Odors
- Quick Results
- Cost Effective

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- Mark Kirkman, Director of Maintenance and Construction at Dorman High School



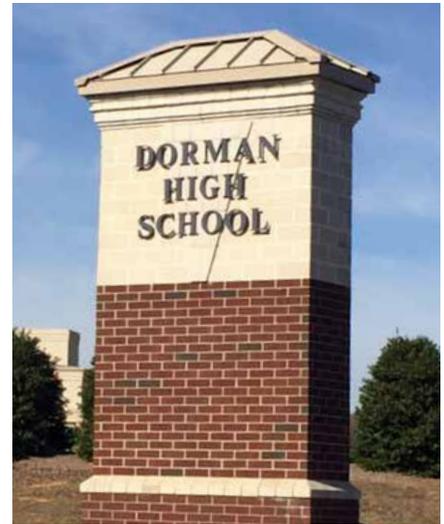
Dorman High School

BACKGROUND

Locker rooms and workout facilities are widely recognized in schools across the country for their distinctive odors thanks to the sweat-soaked clothing, gym bags and sports equipment that introduce an array of odor-causing bacteria into the atmosphere.

High school locker rooms and strength and conditioning training facilities are utilized throughout the entire year as each season plays host to multiple sports teams. Over time, these odors overpower the air, resulting in a virtually unbreathable environment that cannot be neutralized by typical commercial air fresheners or odor-reducers.

In the hot and humid climate of South Carolina, airborne bacteria, virus and even mold spores run rampant throughout locker rooms and athletic facilities, making it critical to establish a clean indoor air environment.



THE CHALLENGE

Dorman High School in Roebuck, SC, is one of the largest high schools in the state and home to more than 30 varsity and junior varsity sports teams. In 2014, the school constructed a 35,000 square foot strength and conditioning room built to accommodate up to 75 student-athletes at a time. While this contemporary facility looked much like those of colleges and universities, one lingering problem remained. Foul odors—they could not get rid of them. Many air purification systems were tried to no avail. It was clear to Mark Kirkman, Director of Maintenance and Construction at Dorman High School, that a new and innovative approach to odor mitigation would be necessary.

Furthermore, the school's 6,000 square foot combination football-lacrosse-soccer locker room had been experiencing a similar problem with offensive odors for many years. Adding more ventilation to the space did not alleviate the odors, and while harmful bacteria and other airborne compounds were at safe levels, the odor within the locker room was overwhelming, making it difficult for athletes and coaches to comfortably prepare for practices and games.

THE SOLUTION

The innovative approach Mr. Kirkland approved for the strength and conditioning room was a bipolar ionization system produced by Plasma Air International of Stamford, CT. Mr. Kirkman collaborated with Plasma Air's local representative, Scott Houston of Thermal Resource Sales (TRS) in Greenville, to provide a solution.

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Based on the CFM of the air handling units, Plasma Air model 51E ion generators were utilized. This industrial quality air purifier is designed for easy installation into air handling units or supply ductwork and works immediately to reduce harmful pollutants and offensive odors without the use of perfumes or other masking agents. As air passes over the ionization tubes, millions of ions travel through the duct system and into the exercise facility, attacking odorous and harmful pollutants at the molecular level. Ultimately, Volatile Organic Compounds (VOCs), bacteria and viruses are neutralized leaving behind a clean, healthy environment. Mr. Kirkman described it this way, "We spent a lot of money and time on the construction of our new weight room, so it was important that we implement an efficient and cost-effective solution for the odor problems experienced in the previous facility. After installing the Plasma Air units, I couldn't be happier. All odors are completely eliminated, leaving behind fresh, clean and comfortable air."

Based on the results experienced in the strength and conditioning building, Mr. Kirkman selected and installed Plasma Air's bipolar ionization system in the 17-year old football-lacrosse-soccer locker room.



THE RESULTS

"Immediately after installing the Plasma Air system in our combination football-lacrosse-soccer locker room," says Kirkman, "I received a call from one of our coaches urging me to come to the school right away. He told me the change was so incredible that I needed to witness it for myself."

As a result of deploying Plasma Air's products, Dorman High School was able to eliminate virtually all offensive odors in its strength and conditioning and locker room areas. Facilities management personnel continue to receive positive responses from student-athletes and their coaches. Because of this success, Dorman High School is currently in the process of deploying Plasma Air products in four additional spaces in the school.

Mark Kirkland summed up the developments this way, "For our locker room and previous weight room, I truly felt as though we tried everything to reduce the odors, including the installation of very expensive and complex commercial ventilation systems. However, nothing seemed to work. From day one, our new strength training room has been completely odor-free and we experienced a significant change within the locker room. Our coaches simply couldn't believe it."

ABOUT PLASMA AIR INTERNATIONAL

Plasma Air International manufactures air purification products that result in healthier, more productive indoor environments in institutional, commercial and industrial applications. The company uses highly efficient bipolar ionization technology to dramatically improve the air quality in schools and other challenging environments. For further details on the company, please visit www.plasma-air.com.



Positive Air Quality - Negative Energy Costs

35 MELROSE PLACE, STAMFORD, CONNECTICUT 06902
203-662-0800 PH 203-662-0808 FAX www.plasma-air.com info@plasma-air.com