

CASE STUDY

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

- Eliminated Odors
- Quick Results
- Cost Effective

“Immediately after installing the Plasma Air system in our combination football/lacrosse/soccer locker room, 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.”

- Mark Kirkland, 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 become more concentrated, resulting in an environment that cannot be neutralized by typical commercial air fresheners or odor-reducers.

In these environments, especially in the Southeast, the potential for airborne bacteria, virus and even mold spores increases dramatically 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 was building a new 35,000 square foot strength and conditioning



facility designed to accommodate up to 75 student-athletes at a time. This would be a contemporary facility, much like those of colleges and universities, so Mark Kirkland, the Director of Maintenance and Construction at Dorman High School, wanted to be sure his new facility had no odor issues.

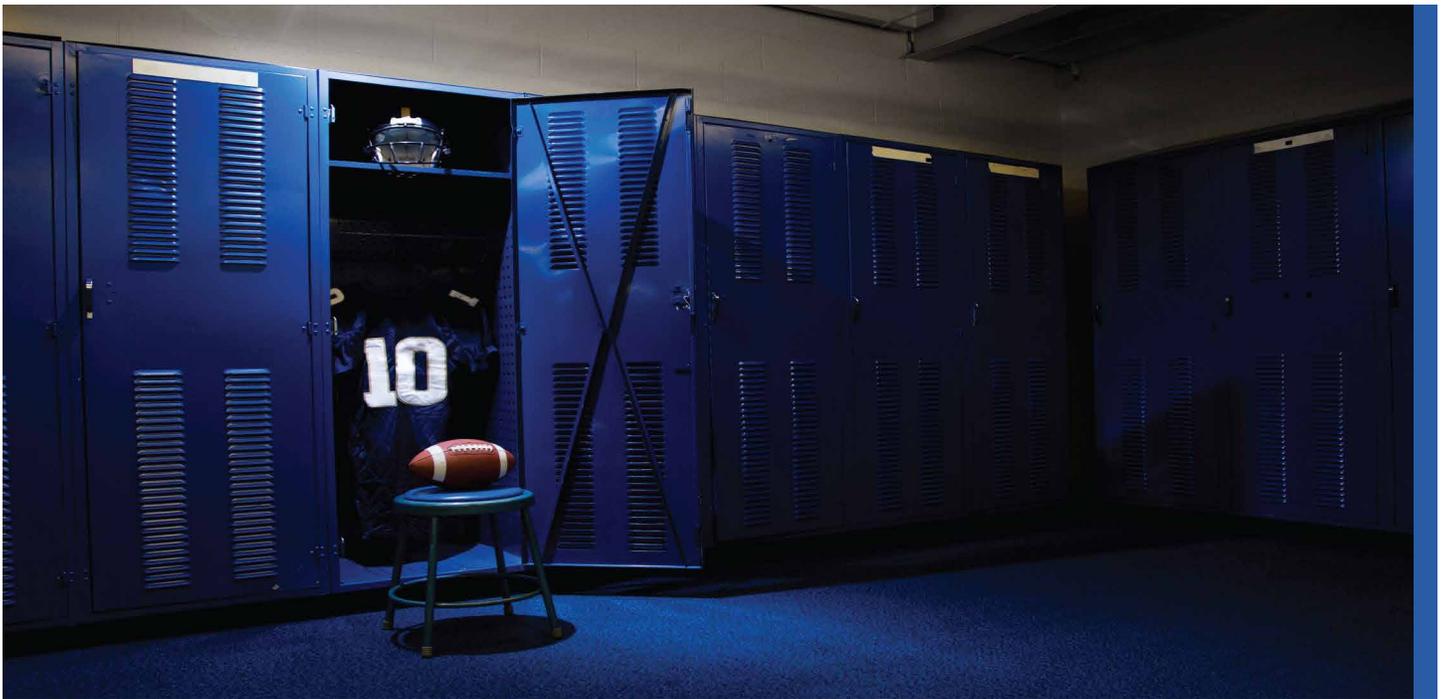
THE SOLUTION

Planning ahead, he brainstormed with Scott Houston of Thermal Resource Sales, a local manufacturer's representative, and decided to test bipolar ionization technology offered by Plasma Air International of Stamford, CT on his worst offender; Dorman's existing 6000 square feet combination football/lacrosse/soccer locker room. A typical over-utilized and under-sized athletic high school facility, Mark chose the space because it had

been experiencing a significant problem with offensive odors for several 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. Mark had also previously implemented a competitive needlepoint product that did not solve the issue and was removed.

Based on the CFM of the air handling units, Plasma Air model 51E tube style ion generators were utilized. This industrial quality air purifier is designed for easy

Continued on page 2



installation into existing 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, odor-causing Volatile Organic Compounds (VOCs), bacteria and viruses are neutralized leaving behind a clean, healthy environment.

Mr. Kirkland described it this way, "We were preparing to spend a lot of money and time on the construction of our new, state of the art facility, so it was important that we implement the same efficient and cost-effective solution used to completely alleviate the odor problems experienced in the existing 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 17 year old football/lacrosse/soccer locker room, Mr. Kirkland is pleased to have Plasma Air's bipolar ionization systems in his new 35,000 square foot strength and conditioning facility, avoiding the odor problem altogether.

THE RESULTS

"Immediately after installing the Plasma Air system in our combination football/lacrosse/soccer locker room," says Kirkland, "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 district.

Mark Kirkland summed up the developments this way. "For our locker room, I truly felt as though we tried everything to reduce the odors, including the installation of 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

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