

CASE STUDY CrossFit ATP Dania Beach



Fitness Center cleans and dehumidifies air with Advantix Systems unit

BACKGROUND

CrossFit ATP is a two-level, 6000 square foot, indoor and outdoor fitness center in Dania Beach, Florida. The facility offers several training courses including CrossFit, a rigorous strength and conditioning program; Kettlebells; and Jiu Jitsu, a Brazilian martial art. Adults and children use the gym under close instructor supervision and engage in intensive workout regimens.

The Dania Beach fitness center includes two workout rooms on the ground level, a padded Dojo on the second floor, and locker rooms with showers. It is open for 10 hours on weekdays, and 3 hours on Saturdays, and accommodates approximately 400 members per day.

CHALLENGE

CrossFit ATP was extremely concerned with maintaining a clean, germ-free environment and eliminating odors, but the naturally high humidity levels of a fitness center made this difficult. The existing A/C equipment did

nothing to remove strong odors, nor did it, which was extremely high during workout sessions. Additionally the humidity prolonged drying time of wet floors and walls and threatened to rust the metal equipment.

Juan Bacca, owner of CrossFit ATP, struggled to maintain proper conditions while keeping operating costs low. He knew that dry air was essential to optimizing member satisfaction, preserving the equipment, avoiding liability from slip and falls, and mitigating the spread of mold and airborne diseases. However, if his operating costs increased substantially, he would be forced to raise rates, a move that would displease his long-time members.

“The humidity in the gym was creating strong odors on the second floor and an overall musty environment for members and staff. Parents complained about the air quality during kid classes and I was concerned about everyone’s safety. When I tried to fix the problem by maxing out my AC system, the problem only got worse with overflowing drip pans and frozen coils.” Bacca said.



ADVANTIX SOLUTION

Bacca met with the Advantix Systems team to discuss these challenges and accepted the team's solution to install a DuTreat 800 unit inside the facility. This small unit was placed in an unused corner and connected to existing duct work to treat the air on both floors.

Within a couple of days, the odors on the second floor were completely eliminated and the environment throughout the facility felt clean, dry and comfortable. Additionally, the low humidity allowed Bacca to raise the set point from 72 to 77 degrees on his conventional A/C units, saving a significant amount of energy while still maintaining a comfortable exercise environment.



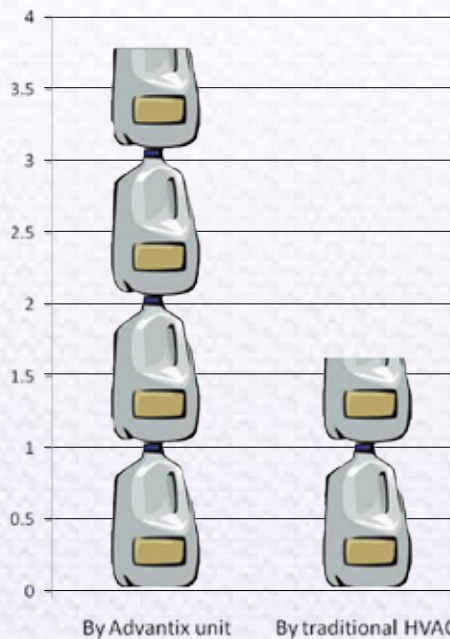
“Since I installed the unit, I’ve had several members tell me that it doesn’t smell anymore and that the air feels clean and dry... My members are happy, and I’m happy too.”

Juan Bacca
Owner of Crossfit ATP

“I used to hear complaints about the conditions in the facility,” Bacca said. “Since I installed the unit, I’ve had several members tell me that it doesn’t smell anymore and that the air feels clean and dry. And the system was so affordable that I didn’t have to raise my rates at all. My members are happy, and I’m happy too.”

Jennifer Stewart, a long-time member of CrossFit ATP, commented on the changes, “Optimal indoor air quality is important to me as an athlete and as a mom. My kids also use the gym and I feel good knowing that the air is healthy for all of us.”

Gallons of Moisture Removed Per Hour



CrossFit ATP accommodates about 70 members an hour during peak workout sessions, which produces approximately 63 gallons of moisture. An Advantix Systems DT-800 unit removes up to 88.8 gallons per day; compared to just 38.4 gallons removed by a conventional system.

HOW IT WORKS

Advantix Systems' cooling & dehumidification systems are based on liquid desiccant's natural removal of moisture from air. This non-toxic brine solution cools, dehumidifies, and cleans the air without ever needing to be replaced and without exiting the system.

When heated, the liquid desiccant releases the captured moisture back outside in the form of warm, vapor air, eliminating condensation from any point in the system. Liquid desiccant is also a natural disinfectant, eliminating bacteria, microorganisms, and odor from the air in just one pass.



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