

AMALIE ARENA

Energy Savings



The Challenge

The Amalie Arena, formerly known as the Tampa Bay Times Forum, underwent renovations in 2015. The original design of the HVAC system required approximately 202,000 CFM of outside air, according to the ASHRAE Ventilation Rate Procedure, to dilute the contaminants in the air and produce acceptable indoor air quality. The renovation of 2015 meant upgrades that would cost millions of dollars.

The Solution

Utilizing the ASHRAE Indoor Air Quality Procedure, the GPS-iBAR® needlepoint bipolar ionization system was installed to control airborne contaminants while reducing the amount of outside air needed. This solution provided excellent indoor air quality all while providing capital and operating cost reductions.

700+
TONS OF
COOLING
CAPACITY
SAVED



The Results

By installing the GPS-iBAR technology to purify the indoor air, the outside air intake was reduced to 108,000 CFM for a total savings of 94,000 CFM, or about 700 tons of cooling capacity. The reduction in cooling capacity resulted in a savings of more than \$1 million in capital equipment. Furthermore, the facility is realizing an annual cost savings of approximately \$115,000 in energy expenditures, while reducing their carbon footprint.

CAPEX Savings = \$1 million
Annual OPEX Savings = \$115,000

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