USF Housing Saves Energy while improving Indoor Air Quality

The Project:
The University of South Florida (USF) founded in 1956, covers over 1900 acres, 250 buildings, 10 million square feet, 34 residence halls occupy over 5,000 on campus beds, with an enrollment of over 48,000 students, making USF the 4th largest university in Florida. USF is classified by the Carnegie Foundation for Advancement of Teaching in the top tier of research universities and is among three other universities in Florida to hold this highest level of classification. The campus of USF participate in the leadership in Energy and Environmental Design (LEED) a third-party certification program and the nationally accepted benchmark for the design, construction and operation of high-performance, green buildings.
The Concern:
USF Housing had received a few comfort and odor complaints from their students and decided to take a proactive approach to solving the issues. Indoor air quality (IAQ) testing and visual inspection found that the culprit was their HVAC systems, including the ductwork. Even though they had been cleaning the HVAC coils themselves utilizing the conventional chemical rinse method, odor and performance concerns still existed. They sought a more thorough method of cleaning the coils to ensure optimal IAQ and operational benefits.

PURE-Steam total HVAC coil and air handling unit (AHU) cleaning, along with hygienic duct cleaning from Pure Air Control Services, Inc. was the ideal solution. This powerful combination not only improved the health and comfort of USF student housing, it also led to operational savings through lower energy costs and reduced HVAC maintenance calls.

The Solution:
Due to USF Housing’s desire for going green, saving energy and providing a healthy learning environment for staff, guests and students, they turned to the scientists at Pure Air Control Services and the PURE-Steam Coil Cleaning process. PURE-Steam is a totally GREEN process (uses no chemicals) that utilizes a proprietary 280-350 degree steam to deep clean coils. PURE-Steam is certified by the Green Clean Institute and has a proven track record for saving energy, improving indoor quality and improving comfort. To date, Pure Air Control Services has environmentally cleaned over 500 AHU systems at USF Housing with PURE-Steam Coil Cleaning.

Benefits of the PURE-Steam Coil Cleaning Process

| • Sanitizes the coils/blower assembly | • Saves Energy (typically .22 cents per sq ft) |
| • Removes latent debris from deep within the coils | • Improves indoor air quality |
| • Creates improved airflow | • Reduces HVAC related work orders |
| • Creates better cooling capacity | • Extends HVAC equipment |

I would like at this time to pass along to you our complete satisfaction on all the work Pure Air Control Services has been providing us here at USF Housing and Residential Education. Over the course of the past two years since we brought you and your company on board we have experienced nothing less than positive results in all the buildings HVAC systems which you have pure-steam. It has greatly improved and extended the operation of the equipment on all of our student buildings and cut back on maintenance work requests. You and your staff have shown us how to do it right and on time and time again your best results in flexibility, meeting critical timelines, deadlines and following up with specific requests which are important in our daily work environment in the residential setting.

We look forward to working with you and PureAir in the future preventive maintenance projects in our residential buildings on campus.

Thank you again,

Mark D. Hauser
University of South Florida
Associate Director Housing & Residential Education
Facilities Management