

PURE Steam

The totally GREEN HVAC sanitizing process

PUREAIR
CONTROL SERVICES, INC.



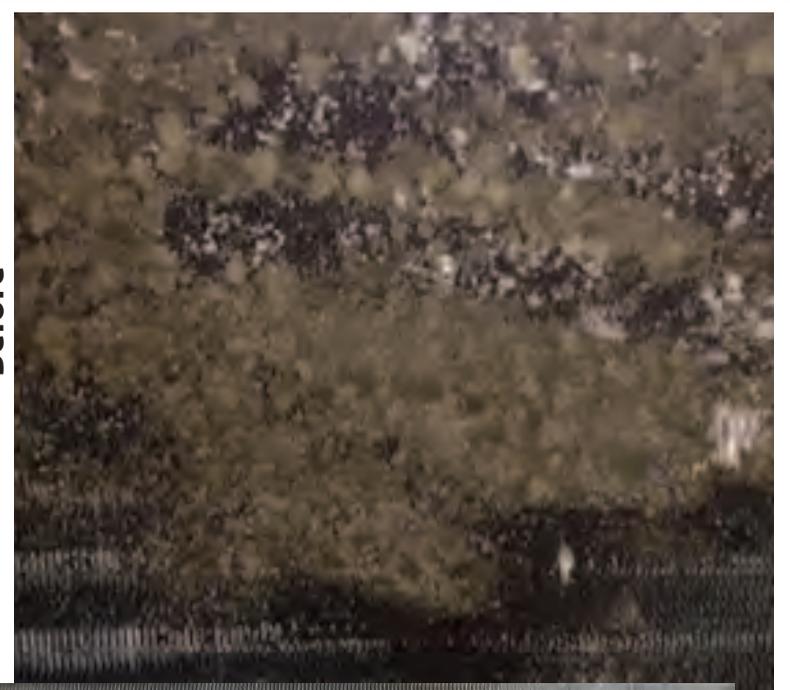
Case Study University of South Florida

USF Housing Saves Energy while improving IAQ

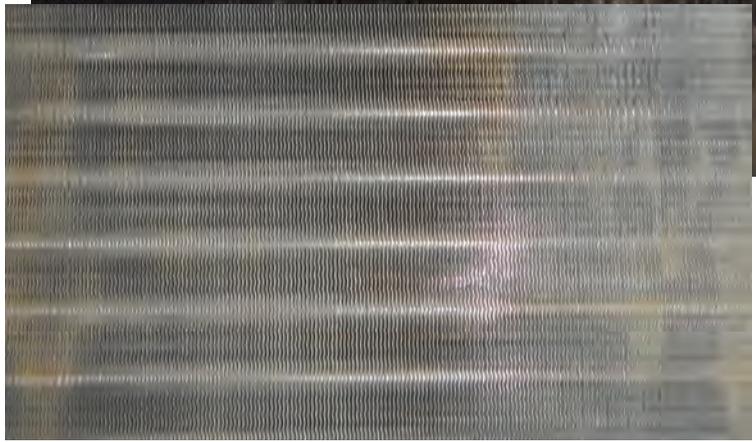
The Project:

The University of South Florida (USF) founded in 1956, covers over 1900 acres, 250 buildings, 10 million sq ft, 34 residence halls occupy over 5,000 on campus beds, with an enrollment of over 48K 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 participates 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.

Before



After



PURE Steam

BRS
BUILDING REMEDIATION SCIENCES

GSA Contract Holder
FSS Contract GS-10F-0488R

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The Concern:

With energy costs rising, USF Housing had taken a close look at HVAC maintenance, including the total operating cost of its HVAC system. They found that the conventional coil cleaning foam/rinse method only superficially cleaned the surface of the coil and pushed small debris further into the coil causing decreased air flow, a musty odor, decreased temperature and humidity control and decreased the quality of the indoor air. In addition, USF Housing was concerned about the thousands of gallons of chemicals that would otherwise be sent in the water system polluting the aquatic ecosystem.

The forward thinking facilities staff at USF Housing felt these dirty coils were nothing but a pot of gold buried in dust and debris in these air handling systems. They were right. The energy savings, improved IAQ and improved air flow have been substantial.

The Solution:

Due to USF Housing 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 uniquely developed process of cleaning coils: PURE-Steam Coil Cleaning. The process is totally green (no chemicals) certified by the Green Clean Institute (one of the few in the country) and has a proven track record for saving energy, improving indoor air 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.

An example of the improved conditions at USF Housing:

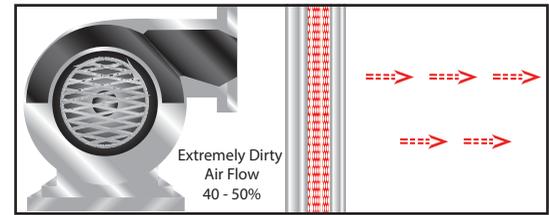
- **Caster Hall** revealed an average air flow improvement of **20%** while
- **Magnolia Hall** showed a average **38.7%** improvement in air flow

This significant air flow improvement also equates to:

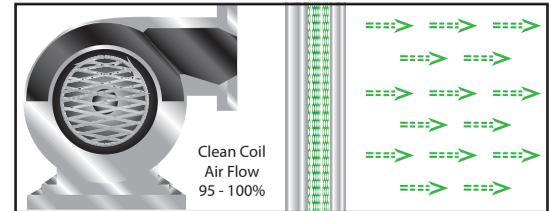
- **Saving energy**
- **Better cooling capacity**
- **Improved indoor air quality**
- **Extending HVAC equipment life**
- **Sterilized odor free coils**
- **Totally GREEN - No harsh chemicals dumped into the ecosystem**

Magnolia Hall

The PURE-Steam Difference!



Before PURE-Steam 463 CFM



After PURE-Steam 640 CFM

Net Difference 177 CFM

or **38.7%**

