

PUREAIR CONTROL SERVICES INC

The totally GREEN HVAC sanitizing process



Coil Sterilization Process

Case Study Georgia Institute of Technology

PURE-Steam Coil Cleaning Help Georgia Tech Facilities Saves Energy and Improve IAQ

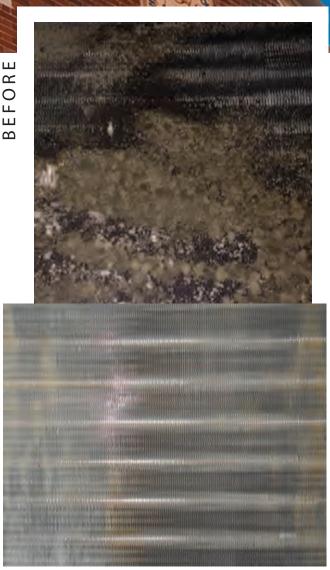
The Project:

Montgomery Knight (February 22, 1901 – July 25, 1943) was an aeronautical engineer who specialized in rotary-wing aircraft. He was the first director of the Guggenheim School of Aeronatics at the Georgia Institute of Technology and a founder of and long-time researcher at the Georgia Tech Research Institute

GT is a leading technology and science university renowned for their deeply-held commitment to improving the human condition. The faculty and students are solving some of the world's most pressing challenges: clean and sustainable energy; disease diagnosis and treatment; and national defense and security, among others. The campus of GT participates in the GREEN BUZZ and 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.



ΑΕΤΕΒ



The Concern:

With energy costs rising, Georgia Tech University 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, GT was concerned about the thousands of gallons of chemicals that would otherwise be sent in the water system polluting the eco system.

The forward thinking facilities staff at GT 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 Solution:

Due to Georgia Techs desire for going green, saving energy and providing a healthy learning environment for staff, guests and students they turned to the scientitists 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. GT has recognized a 41% improvement in airflow and 116% ROI

Benefits of the PURE-Steam **Coil Cleaning process:**

PURE-Steam Coil Cleaning process is totally GREEN – uses no chemicals, utilizing a proprietary (up to) 350 degree steam for a deep cleansing of the coils helping to

- Sanitize the coils/blowers assembly (Green process)
- **Removes latent debris from deep within** the coils
- **Creates improved air flow**
- **Create better cooling capacity**
- Saving energy (typical .22 cents per sq ft)
- Improving indoor air quality
- **Extends HVAC equipment life**



		Before PURE-Steam	After PURE-Steam	Net Improvement
	CFM	6286	8964	2476 🚔 41%
	WC	1.54wc	0.158	<.047 🙈 <.0257
	Ра	39.9Pa	31.4Pa	8.5Pa 🚖 21.30%
	CFM - Cubic feet per minute WC - Inches in water column Pa - Pascalss Annual Energy Savings \$2,198.00 116% RC			
	(From	FLOW Precision d Balance)	A B C D -0.12 -0.23 -0.23 -0.23 External Static Design	E F G H I J -1.81 0.32 Actual Total Design Actual 0.44 Static
	Steam Coil ROI 116%			l 16 %





For more information on Pure Air Service Services, Inc,. its Steam Sterilization Coil Cleaning, and/or duct-cleaning services, contact(800) 422-7873, or visit www.pureaircontrols.com, iag@pureaircontrols.com.