



HVAC Hygienic Cleaning



- **Saves Energy**
- **Improves Indoor Air Quality**
- **Adds Comfort**
- **Extends Equipment Life**



PURE-Steam™ HVAC coil cleaning is an innovative method to restore not only the evaporator coils, but the entire interior of an air handling unit (AHU) to near factory specification from both a performance and cleanliness perspective.

The PURE-Steam service excels beyond where other HVAC cleaning methods stop. It is a comprehensive indoor air quality and energy efficiency forward solution that is the only Green Clean Institute certified process in North America.



PURE-Steam operates at temperatures up to 350° F to disinfect the coils and AHU, effectively killing bacteria and fungi(mold) to remove allergen triggers and musty odors.

PURE-Steam also deeply cleanses at up to 350 psi pushing dust and debris completely through the coil to improve airflow and Delta P (pressure) for real operational savings. The recommended PM is generally performed on an annual or bi-annual basis.

Here's how it works

Preparation



Testing



Cleaning



Depending on where the AHU is located we choose and deploy the specific equipment required for job. Then, as a licensed mechanical contractor we shut down the unit following all lockout and tag-out procedures. If the AHU is located in a Mechanical Room a containment area is established to prevent steam and moisture from affecting the indoor environment. Next, all electrical components and ducts are masked to keep them dry.

Pure Air Control Services Inc. performs their own proprietary Coil Cleanliness Verification Test (CCVT). This test is repeated across the span of the coils measuring the Delta P (ΔP) to determine which zones of the coil are most fouled. This is helpful to report the before state of the coil, as well as letting the tech know which areas of the coil will require the most attention. The data is logged and then cleaning commences.

The entire interior of the AHU is first HEPA vacuumed, then a pre-steam enzyme treatment is applied to the coils. Next, the interior is steam cleaned top to bottom and the coils are worked with a precise method to ensure all debris is dislodged from deep inside. Water extraction is maintained throughout the service. If necessary, the coils can be flushed with clean water at 50 gallons a minute. Another CCVT is performed to report the results. If an area still shows signs of fouling it's reworked until clear. Finally, a post-steam Bio-active treatment is applied to inhibit microbial growth for up to a year.

For more information or to request a complimentary consultation

Please call the Indoor Air Quality Experts at

1-800-422-7873

or visit PureAirControls.com



HVAC Training Lab

Pure Air Control Services Inc. is a licensed mechanical contractor. All of our service techs receive highly specialized practical training in our state-of-the-art HVAC Lab (one of few in the U.S.) in conjunction with classroom curriculum through our IAQ Learning Institute located at our headquarters in Clearwater, FL. Since PURE-Steam and HVAC New Life™ restoration are proprietary processes, it is essential that our crews effectively learn the PURE-Steam procedures, techniques and safety precautions before working in the field.

M&V Reporting



After the job is completed a detailed Measurement & Verification (M&V) Report is provided for each AHU that was cleaned with PURE-Steam. This report not only contains before and after performance data recorded with the CCVT, but also includes a QA checklist of the job specification, a complete photo log, and recommendations for any additional issues that might still need to be addressed. This valuable, proprietary, report is a useful archive to track historical data on the equipment.



Conventional HVAC Coil Cleaning

- Not a "Green" or Eco-Friendly Process
- Chemicals can Corrode the Interior of Coils
- Chemicals Rinse to the Water System or Roof
- Only Cleans the Surface of the Coils (60 psi)
- Marginally Improves System Performance
- Very Little to no Measurable Energy Savings
- Minimal IAQ Improvements
- Pressure washing uses up to 3000 psi



IAQ Benefits of PURE-Steam

- Disinfects Coils at 280-350° F
- Destroys Bacteria & Fungi
- Pre-Steam Enzyme Treatment
- Eliminates Musty Odors
- Improves Fresh Air Exchange
- Low pressure up to 350 psi
- Post-Steam Antimicrobial Bio-active Treatment



Institutional Benefits of PURE-Steam

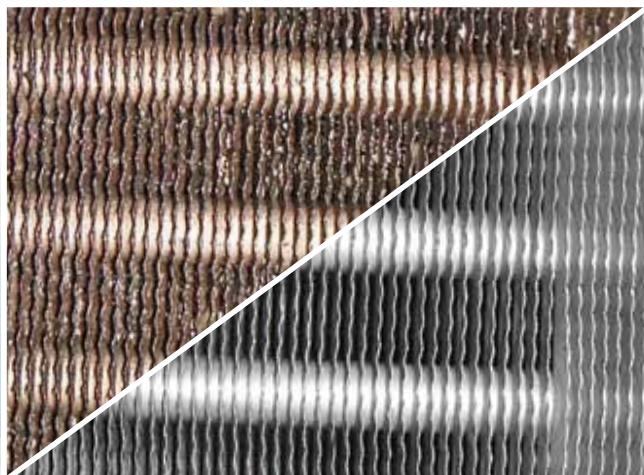
- Optimized System Performance
- Estimated Energy Savings of 17-22¢ per foot
- Improved Cooling Capacity
- Reduced Work Orders
- Extended Equipment Life



PUREAIR
CONTROL SERVICES, INC.
Healthy Buildings, Healthy People

PURE-Steam™ is the Natural, Green Certified & Economical Choice for HVAC Air Handling Unit & Coil Cleaning.

Coils Before



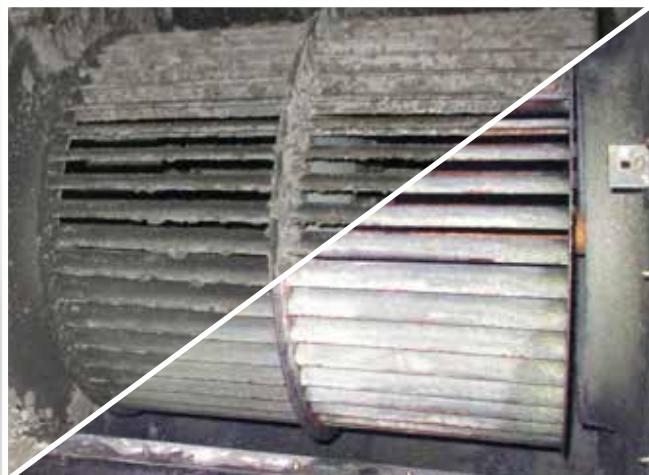
Coils After



PURE-Steam™

HVAC Hygienic Cleaning

Blower Fan Before



Blower Fan After



PURE-Steam™

HVAC Hygienic Cleaning

Before



HVAC NEW LIFE™



After



Ask about HVAC New Life™ and find how you can restore aging equipment for 1/10th the cost of new replacement!

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**PUREAIR™
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Healthy Buildings. Healthy People.**

pureaircontrols.com

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