



PROJECT PROFILE:

Missouri Schools,
Department of Health Funding

Challenge:

Many K-12 school buildings throughout Missouri have indoor air quality concerns as a result of aging and fouled HVAC systems. These conditions came into the public spotlight during the recent COVID-19 pandemic and were earmarked for help through subsequent rounds of federal relief funding.

One such program of federal funding for schools is through the Centers for Disease Control (CDC) Epidemiology and Laboratory Capacity for Prevention and Control of Emerging Infectious Diseases (ELC) program. This funding supports state and local health departments in their efforts to respond to public health emergencies. Specifically, this allows public schools to use CDC funding for HVAC and IAQ improvements.

This often-overlooked program became the primary purchasing vehicle for the Missouri State Board of Education for their K-12 school districts to quickly move forward on this extensive project. The project was brought to the table for WTI/Pure Air Control Services by their strategic partnership with Grainger Services. During the first round of ELC funding, Grainger provided Missouri schools with air purification products and this time around the schools wanted to focus on HVAC improvements.

Besides the challenges facing the schools with their HVAC systems, all work needed to be complete by July 31, 2023. Less than 90 days after the massive project was initiated! So, communication, prioritization and rapid deployment were the key pillars for success.

Project Timeline May 1, 2023 – July 31, 2023

Project Type WTI/Pure Air Control Services

Project Size 67 school districts, different school buildings

Services Used HVAC steam cleaning, duct cleaning, and HVAC assessments



Coils before PURE-Steam

Coils after PURE-Steam



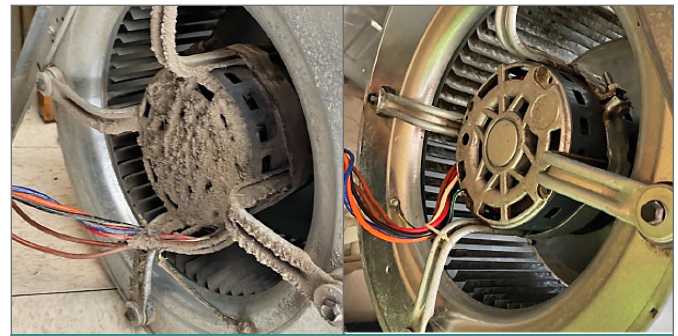
Ducts before PURE-Duct

Ducts after PURE-Duct



Ducts before PURE-Duct

Ducts after PURE-Duct



Blower before PURE-Steam

Blower after PURE-Steam

Solution:

After successive planning meetings with Grainger, the Missouri Department of Health, Tremco, and WTI/Pure Air teams, a simple order form for HVAC system cleaning services was sent to every school district in the state of Missouri. Based on the data submitted, planning calls with each school district were made to prioritize the air handler units (AHUs) and ductwork with the greatest needs to get the most work performed within the limited timeline. In all, 67 school districts will be able to utilize services before the spending deadline. Here is a highlight of the services performed.

PURE-Steam AHU and Coil Cleaning

PURE-Steam is a proprietary service that uses high temperature and low-pressure steam to effectively sanitize AHUs and remove airflow obstructions from deep within the evaporator coils. Fouled coils lead to energy loss because the blower runs longer and more often to achieve the desired thermostat setting. The results of PURE-Steam are improved airflow, temperature control and indoor air quality. Post service reports for each AHU cleaned showing before/after coil cleanliness verification data and photos were issued to the school districts.

PURE-Duct Cleaning

The Environmental Protection Agency, along with other organizations, has found that dirty ducts contribute to allergic reactions, asthma attacks and ultimately disrupted classroom study or even absence! The PURE-Duct service is a high-level, environmental cleaning of the air conveyance system. It safely removes dirt, dust

and particles from the air ducts and associated inline HVAC equipment. Post-service reports for each duct system cleaned showing before/after photos were issued to the school districts.

HVAC Conditions Assessment

HVAC assessments of representative AHUs and/or ductwork were provided to participating school districts as a value-added program. These types of assessments are useful to the school districts for capital planning for future HVAC cleaning and restoration projects. The HVAC assessments are composed of relevant equipment data, current hygienic and aging condition, and photo documentation.

Overall, the project was a great success thanks to the close work of the schools, MO DHSS, Grainger, WTI/Pure Air Control Services and the Tremco field teams in Missouri.

“ We very much appreciate the job your crew has done. They are very professional, and their work is excellent. When they do a room, you cannot even tell they were in that room. It is spotless. Thank you all!!

– Dr. Matt Copeland, Superintendent,
Newtown Harris R3

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