KES

INDUSTRY LEADERS IN TURNKEY DEMAND CONTROL KITCHEN VENTILATION (DCKV)

WHAT WE DO

Demand Control Kitchen Ventilation (DCKV) controls the exhaust and supply fans automatically in order to provide the correct amount of exhaust at the correct times saving you energy and money.

A proper and well designed DCKV system can save money for the operator every single day. Your fan doesn't work as hard and therefore will most likely last much longer.

We offer the most efficient answer to the demand control needs. KES has been in the business for over 17 years and offers a full service solution from design to final startup in one complete offering.

ECOAZUR's cutting-edge solution constantly monitors your kitchen for even the slightest changes in temperature and detects smoke and vapor in an instant.

ECOAZUR SYSTEM AT

Washington University School of Medicine

McDonnell Science

4565 McKinley Ave, St. Louis, MO 63110

WUSM was looking for a DCKV solution as part of a retro-commissioning project at the McDonnell Science building. With the need to retrofit modulating dampers into the existing 5 hoods, ECOAZUR became the perfect control solution for this multi-hood, single exhaust fan design.

Strategic Partner:

I·E·S·G
Integrity Energy Solutions Group

www.iesgcorp.com
1777 Marine Pkwy, Brooklyn NY 11234
info@iesgcorp.com
(800) 757-2406

Our Solution

This ECOAZUR system features an optic sensor, temperature sensor, and modulating damper system to ensure that each hood is getting the proper amount of airflow for the individual hood's cooking operations. The system features cloud-based connectivity as well as building automation BACnet integration. From an estimated 50% new average fan speed, the University is over-achieving on energy savings with a new average fan speed of 44%! The exhaust will now rarely need 100% fan speed for cooking operations.

Results

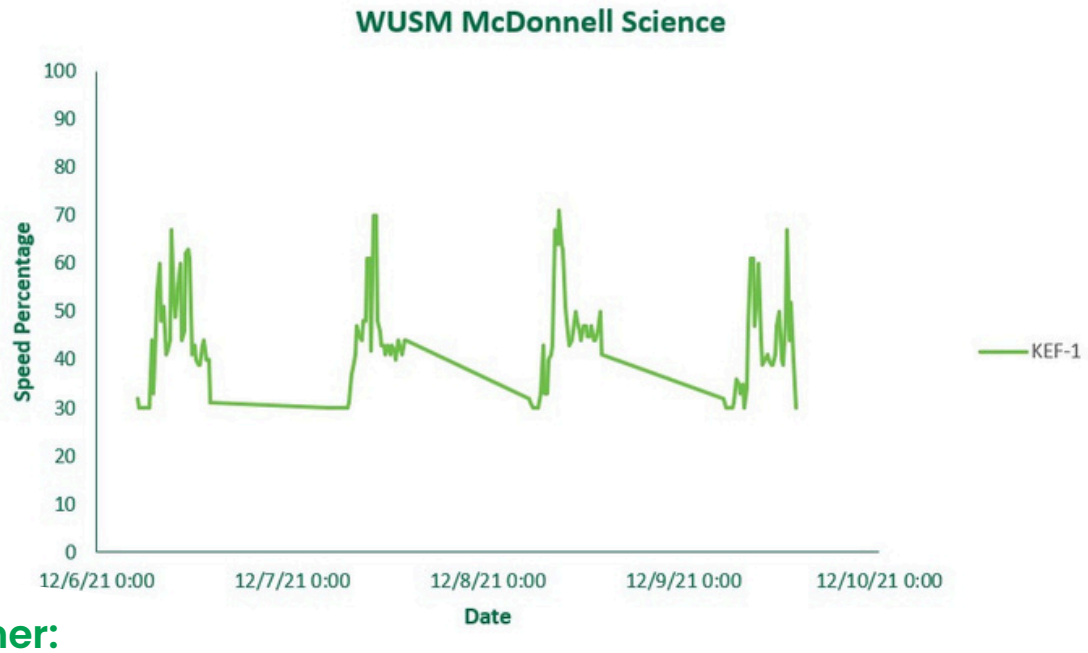
Runtime Hours per Day: 10 | Total Controlled CFM: 10,000

Estimated Preliminary Analysis:

- Average New Fan Speed: 50%
- Electrical Savings: 69,263 kWh / year
- Electrical Savings: $5,541 / year
- Heating Savings: $2,459 / year
- Cooling Savings: $391 / year

Post Installation Analysis:

- Average New Fan Speed: 44%
- Electrical Savings: 76,541 kWh / year
- Electrical Savings: $6,123 / year
- Heating Savings: $2,772 / year
- Cooling Savings: $441 / year



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