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

Lahey Hospital & Medical Center

41 Burlington Mall Road, Burlington, MA 01805

Medical centers and hospitals are a great opportunity for energy savings in their commercial kitchens due to the long run time hours and quantity of cooking activity taking place. Lahey Hospital was no exception with 4 large kitchen hoods and 4 exhaust fans to move a large quantity of air all day long.

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

The ECOAZUR standard system utilizing temperature and optic sensors was a perfect retrofit solution for this facility to ensure the exhaust fans and associated makeup air units would be able to modulate based on the varying cooking activity and operate on an as needed basis. With BACnet communication to the building automation system, bypass variable frequency drives, and a full turnkey installation, ECOAZUR will be continuously saving energy.

Results

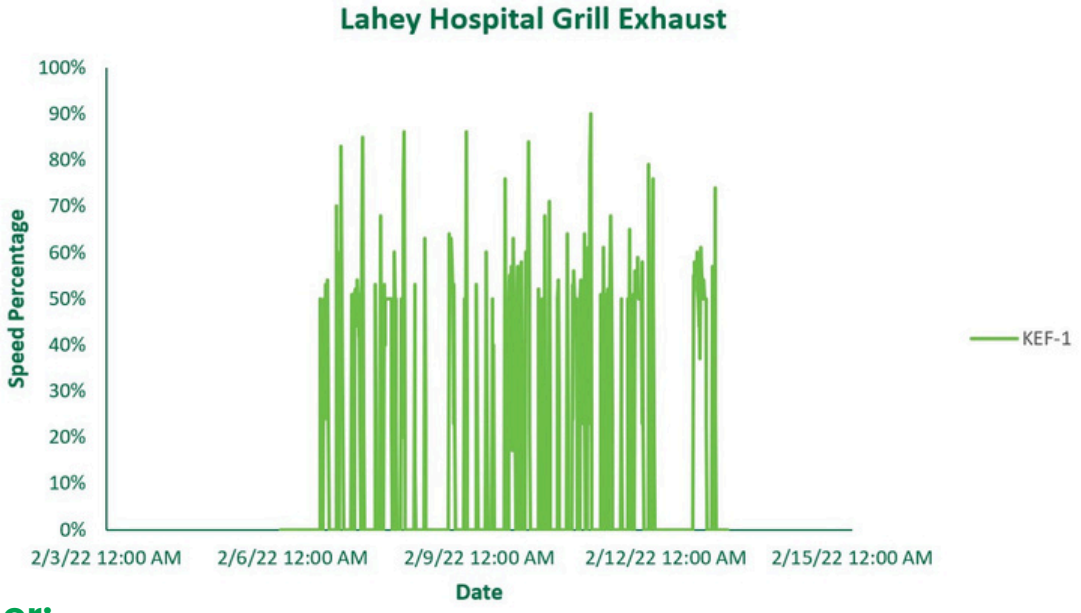
Runtime Hours per Day: 24
Total Controlled CFM: 23,650 | Total Controlled HP: 39

Estimated Preliminary Analysis:

Average New Fan Speed: 59%
Electrical Savings: 170,774 kWh / year
Electrical Savings: $25,616 / year
Heating Savings: $20,064 / year
Cooling Savings: $710 / year

Post Installation Analysis:

Average New Fan Speed: 55%
Electrical Savings: 176,136 kWh / year
Electrical Savings: $26,420 / year
Heating Savings: $22,022 / year
Cooling Savings: $780 / year



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