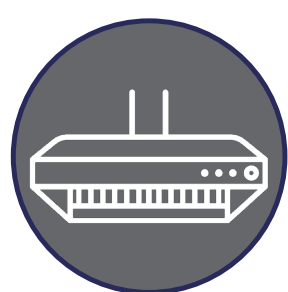
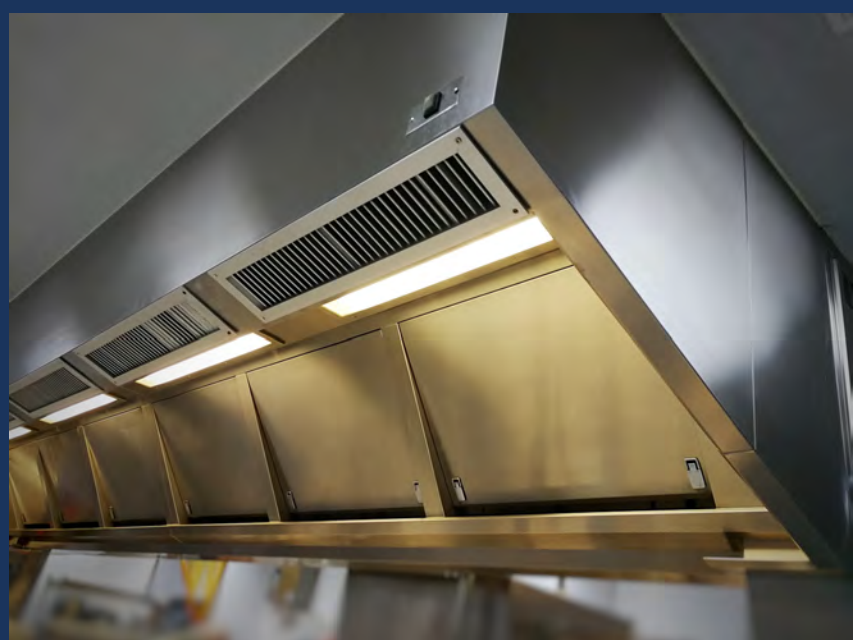




Save Energy and Reduce Operating Costs with Demand-Controlled Kitchen Ventilation Systems



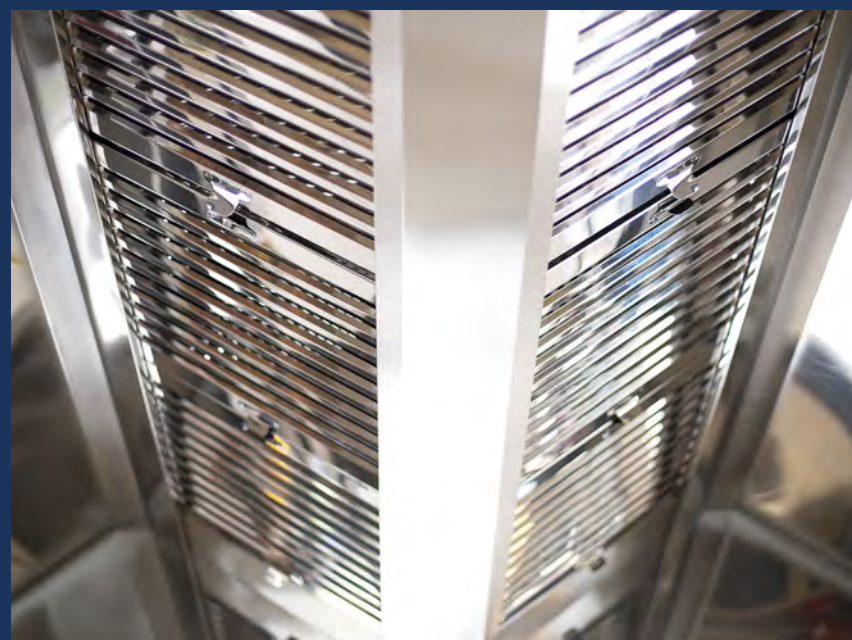
Demand-Controlled Kitchen Ventilation (DCKV) systems can be easily installed on your existing kitchen ventilation system, reducing energy consumption and operating costs by automatically adjusting airflow based on demand.



A Smart Investment

- Ventilation in commercial kitchens can account for half of the HVAC energy use in restaurants and dining facilities.
- Conventionally, kitchen exhaust fans and the associated makeup air handlers are switched manually and left to run at full speed for all operating hours.
- Air flow can significantly impact the power needed for kitchen ventilation. Even a relatively modest reduction in air flow can result in large fan energy savings.

Source: ucdavis.edu



How DCKV Works:

1. Uses sensors to detect cooking activity under the hood
2. Analyzes sensor signals to determine how much cooking is taking place
3. Figures out the adjustment to be made to the ventilation system and sends signals to the ventilation system controls
4. Makes adjustments to the exhaust hood fan and outdoor air HVAC equipment

Source: energy.gov

Incentives and Rebates

FirstEnergy's Ohio utilities offer a wide range of incentive programs to their business customers – including reimbursements for improvements to your facility that increase energy efficiency and reduce electricity consumption.

Estimated Annual Energy Savings and Incentives

Total Motor HP	Estimated Annual Energy Savings	Incentive*
1	4,486 kWh	\$224.30
5	22,430 kWh	\$1,121.50
20	89,720 kWh	\$4,486.00

*Incentive calculated using \$0.05/kWh

Efficiency in Action - University Dining Facility



Project Description:

Installation of DCV Controls on Kitchen Hoods
 Total Motor Power: 12 HP
 Daily Operating Hours: 17 Hours
 Days Per Week: 7
 Weeks Per Year: 52
 Cost Per Kilowatt Hour: \$.10

Results:

Annual energy savings:
53,832 kWh
 Calculated Incentive:
\$2,691.60
 Payback After Incentive:
Less than 3 Years*

*Payback calculated using \$0.10/kWh electricity cost

Start Here: Apply online at EnergySavePA-Business.com, email EnergySavePA@Sodexo.com, or call 844-243-4946.