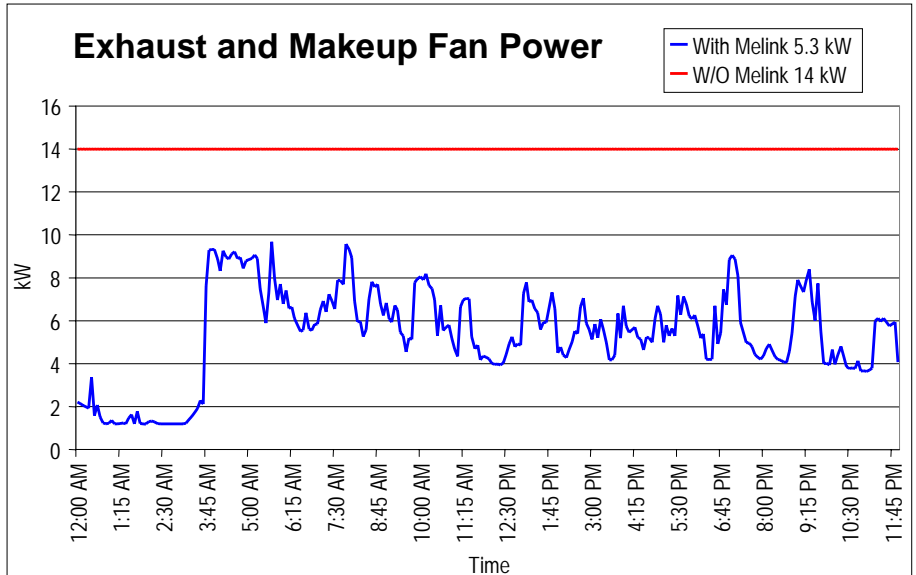


Demand Ventilation in Commercial Kitchens An Emerging Technology



The kitchen ventilation system at the Intercontinental Mark Hopkins Hotel in San Francisco proved to be a great application for the **Melink Intelli-Hood® Controls**.

This *Emerging Technologies Case Study* demonstrated that a combination of factors (including magnitude of fan horsepower, scheduled cooking periods and 24/7 operation) contributed to the cost effectiveness of this demand-ventilation system.

Case Study: Mark Hopkins Hotel

Without Melink Intelli-Hood® Controls

Design Exhaust Ventilation Rate	19,500 cfm
Exhaust & Makeup Fan Power	14 kW
Exhaust & Makeup Fan Energy	336 kWh/d

With Melink Intelli-Hood® Controls

Reduced (Average) Exhaust Rate	13,750 cfm
Reduced (Average) Fan Power	5.3 kW
Reduced Fan Energy	127 kWh/d

Energy Savings

Effective Exhaust Reduction	5,750 cfm
Makeup Air Heating Saving	11,826 therms
Average Demand Reduction	8.7 kW
Average Fan Energy Saving	209 kWh/d

Cost Savings

Fan Energy Savings*	\$9,910
Makeup Air Heating Savings*	\$9,460
Total Cost Savings with Melink Controls	\$19,370
Installed Cost of Intelli-Hood® Controls	\$15,000

Payback < 1 year

* based on \$0.80/therm and \$0.15/kWh

