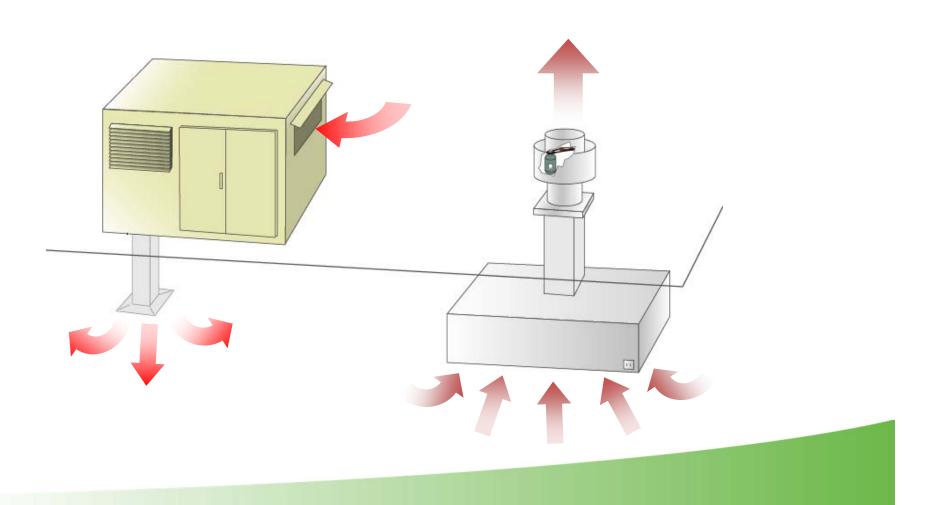
AEE CHAPTER MEETING Demand Control Ventilation DCV February 18, 2016

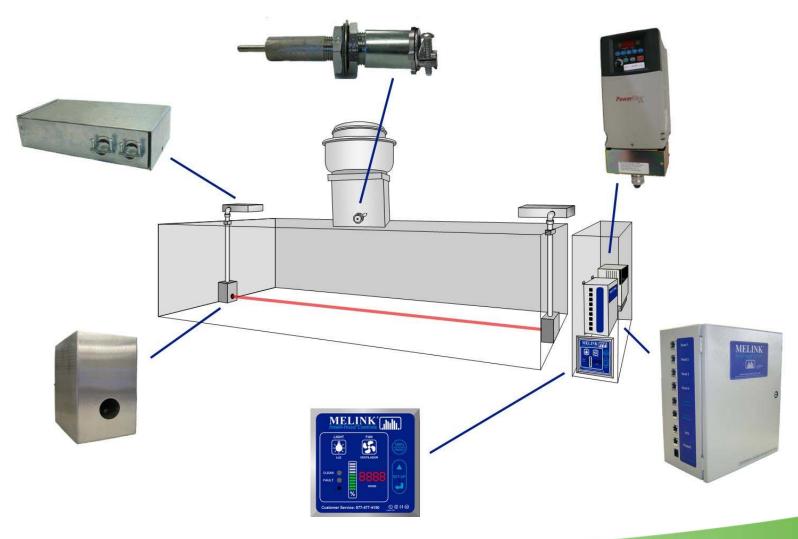
Solves the problem of all-or-nothing ventilation

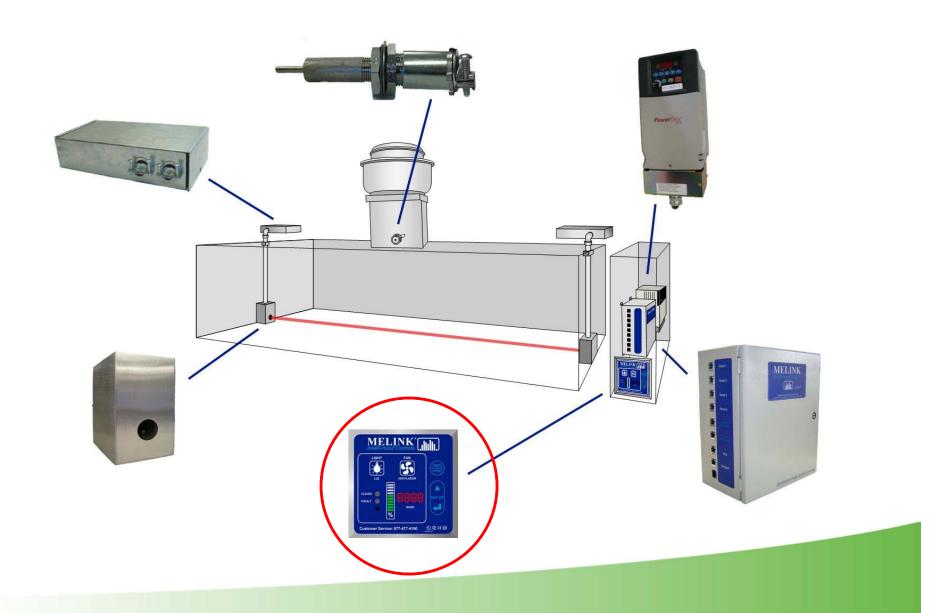


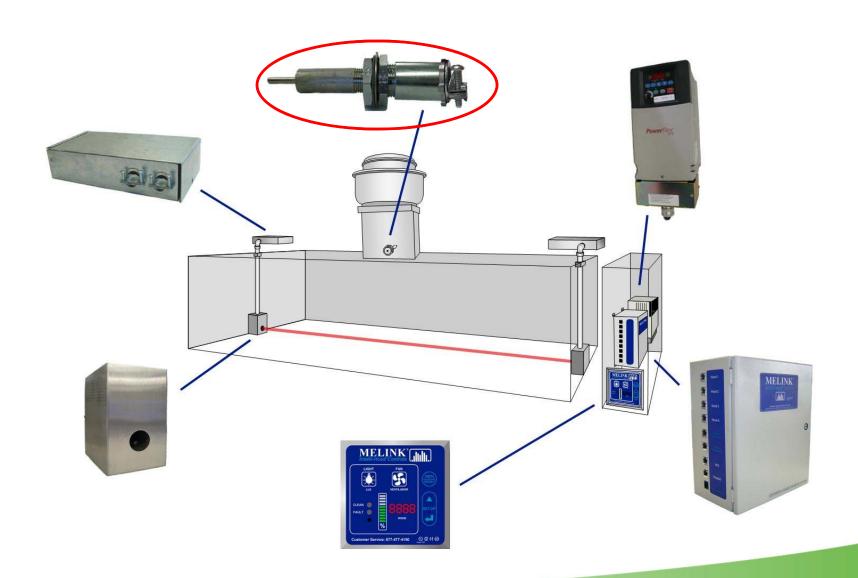
Types of systems

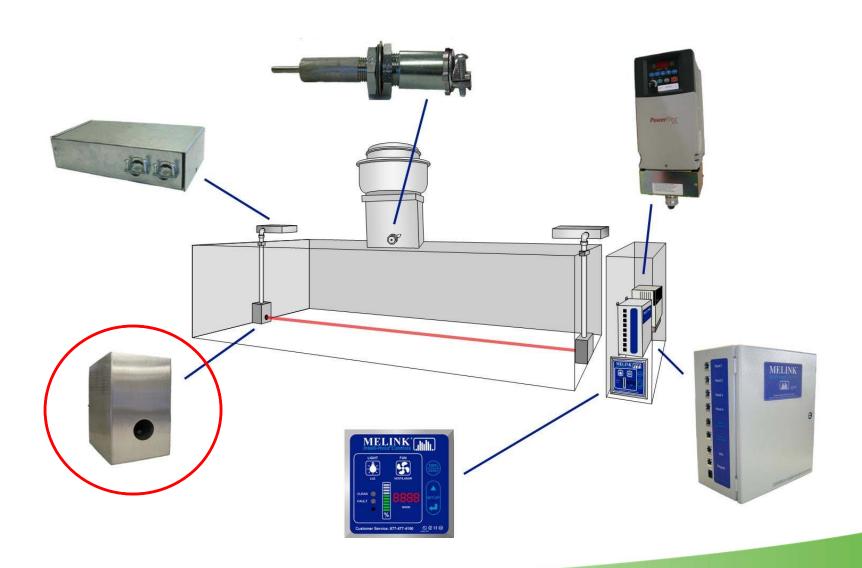
- Temperature only
- Optics and temperature

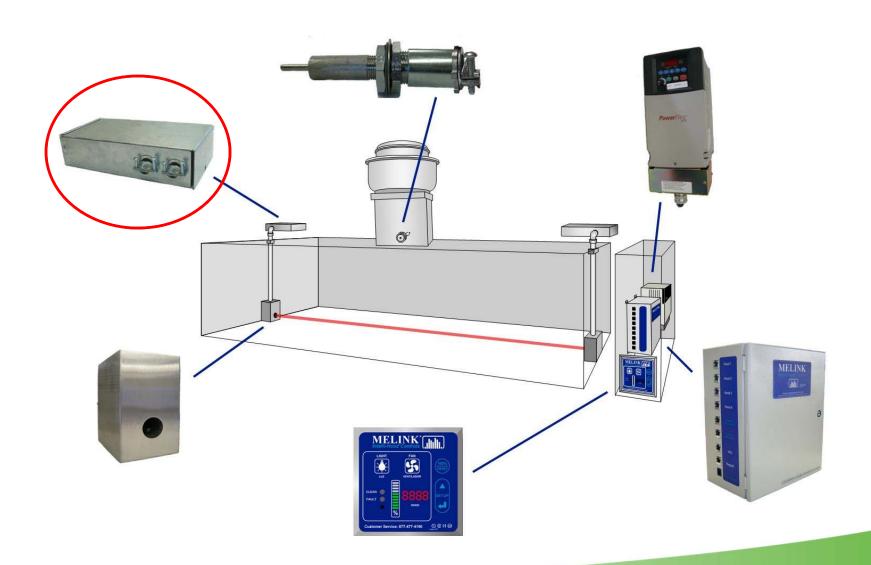
Typical System[®] Components



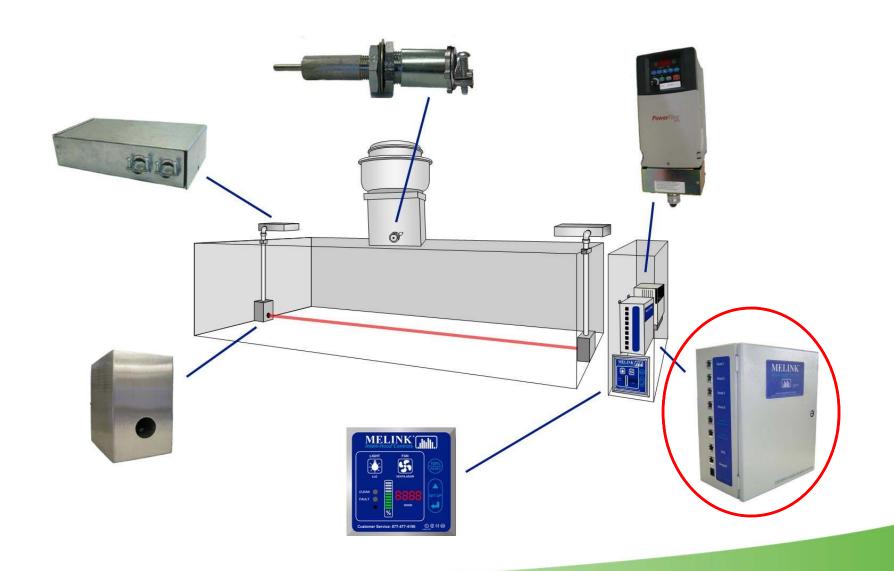


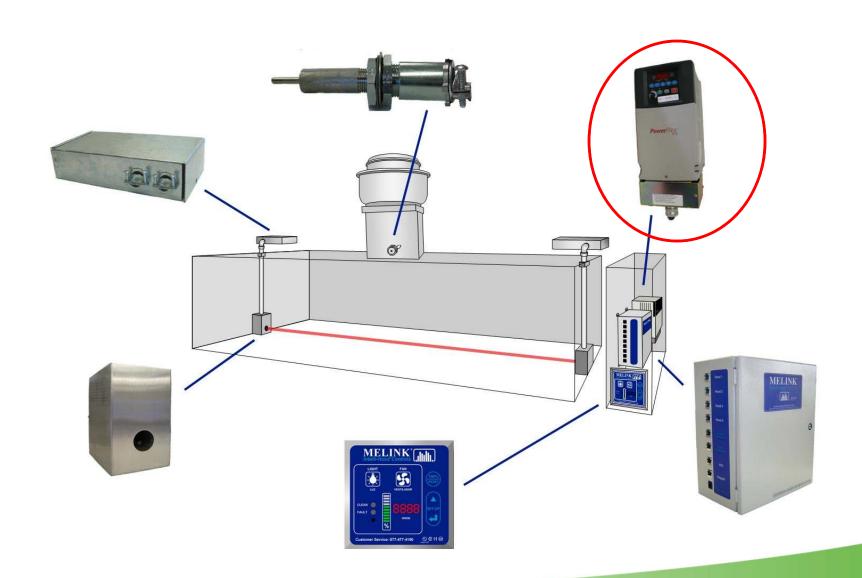




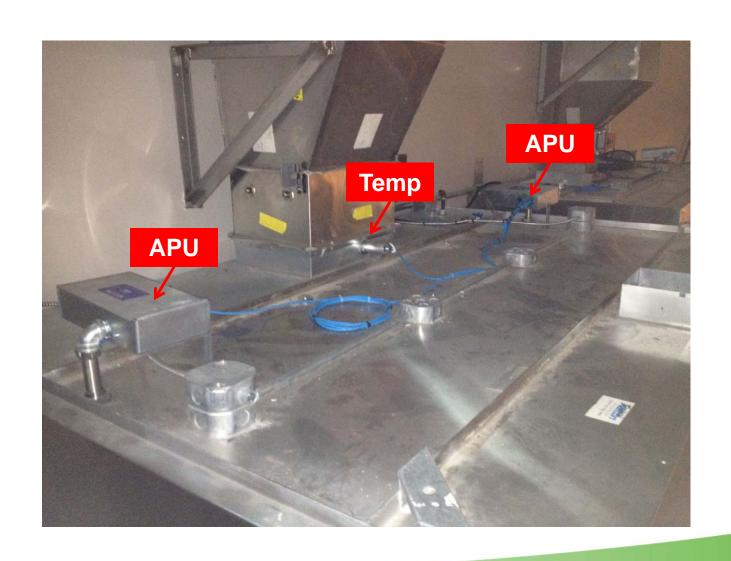












Typical Savings

- Payback: 1-3 yrs (3-6 for Corp Office) typical
- Save \$5,000 to \$20,000 per site each year
- Conditioned air savings: \$3 / CFM / Year
- Internal Rate of Return = 20% to 50%
- Improve overall hood efficiency by up to 50%
- Fan energy savings: 20% speed reduction = 50% savings

Code Compliance

- NFPA 96 duct air velocity reduced 1500 fpm to 500 fpm
- UL, ULC, and CE approved controls
- IMC engineered or listed variable-speed systems allowed
- Letters of acceptance from inspectors across the U.S

Case Study: Hotel

Scenario:

- Major Las Vegas hotel
- 4 hoods
- Retrofit
- Install time: 3 Nights



Case Study: Hotel

Investment/ROI

• Installed cost: \$25,425

Motor Operating Savings: \$17,328/yr

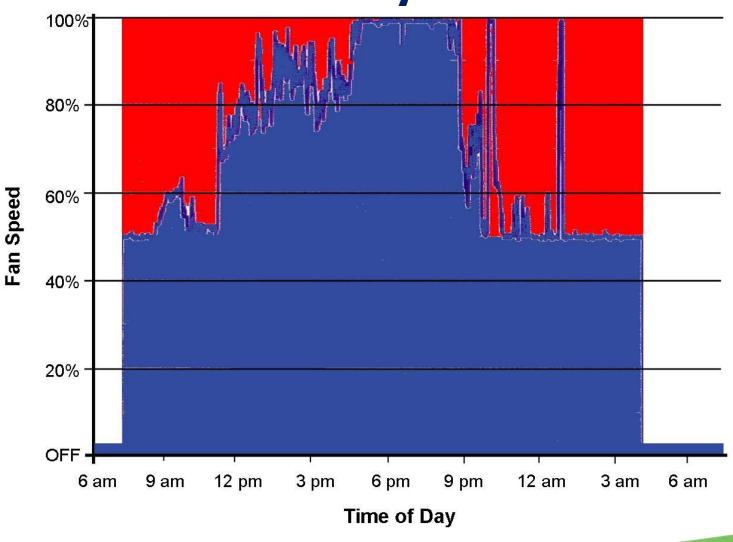
Heating Savings:\$ 131/yr

Cooling Savings: \$ 1,655/yr

Total Savings: \$19,114/yr

Payback Period: 1.3 years

Hotel 1-Day Profile



Case Study: University

Scenario:

- A Florida university
- 3 hoods
- Retrofit
- Install time: 2 Nights



Case Study: University

Investment/ROI

• Installed cost: \$19,250

Motor Operating Savings: \$ 4,900/yr

Heating Savings:\$ 123/yr

Cooling Savings: \$5,100/yr

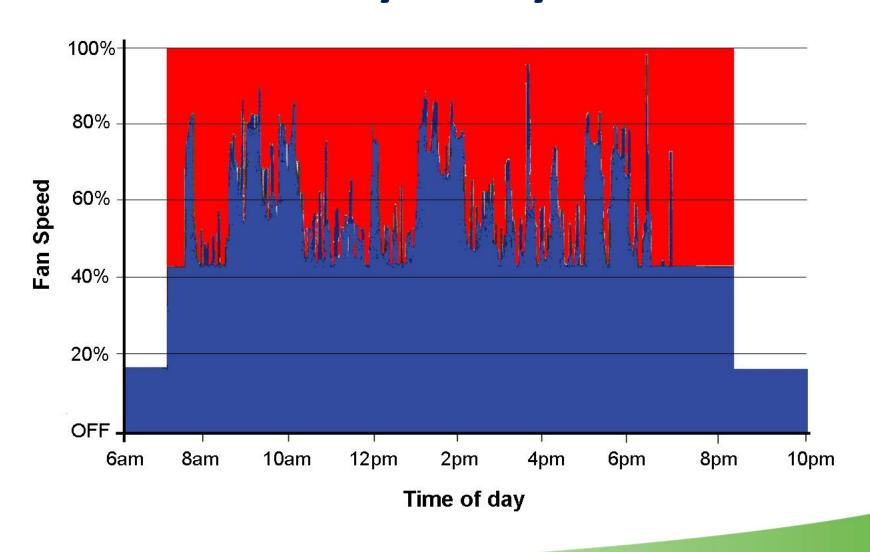
Total Savings:

Payback Period:

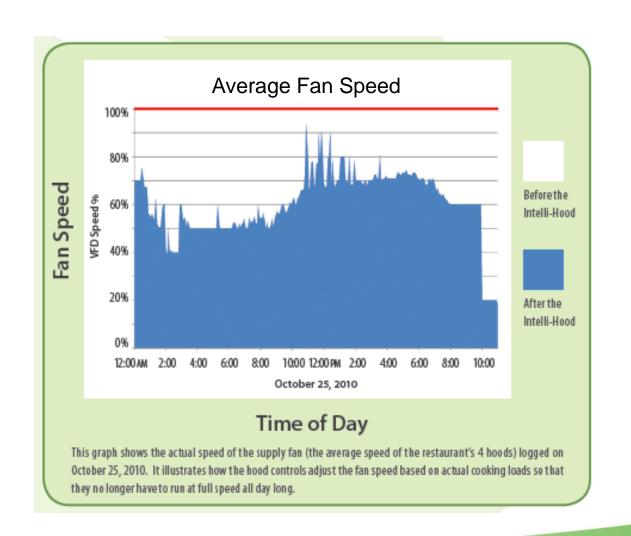
\$10,100/yr

1.9 years

University 1-Day Profile



Restaurant 1-Day Profile



Questions?

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