



Intelli-Hood control systems installed in Corporate Dining Kitchen in Downtown Cincinnati, Ohio. All data pulled using Decibel X.

DATA POINTS:



Decibel readings taken at intervals of 100% max motor speed, 80% and 60%, run speeds, and 40% min. motor speed. All readings taken from under the hood.



DECIBEL RATING:
80dB = Fire Alarm
70dB = Conversation



DECIBEL REDUCTION

11 dB Difference
No Intelli-Hood: 77.9 dB
Intelli-Hood: 66.9 dB

Context:

A consumer packaged goods (CPG) company headquartered in Cincinnati, Ohio was having extremely loud noise issues in their cafeteria at their LEED certified main campus. They determined the cause to be the kitchen exhaust fan. The motor for the 20 horsepower fan is located five floors above the kitchen hoods with the exhaust fans running at full speed all day, every day. Noise from the motor created an uncomfortably loud kitchen and muffled conversations within the kitchen and dining area.

Result:

Working with a property management company, Melink was able to identify the issue and retro-fit Intelli-Hood controls into their existing hoods. The new controls were able to modulate exhaust and make up air fans from 100% to as low as 30% based on cooking intensity. Not only did this result in fan energy and conditioned air utility cost savings, but the Intelli-Hood system created a more comfortable and quiet kitchen by reducing kitchen hood exhaust noise levels by 11dB.

