



INTELLI-HOOD®

KEY SAVINGS

Overview

Fairmont Palm Dubai partnered with Taka Solutions to perform an EPC to understand where they were using, and wasting, most of their energy. As a result of the audit, they learned of a huge area for potential savings was in their kitchen. They decided upon installing Intelli-Hood's DCKV controls for the versatility and scalability. Using one solution across a variety of different sized kitchens, as well as being able to retrofit the controls into current hoods while maintaining UL listings, eliminated the need for new hoods and ductwork to be installed.

Implementation

The initial installation was completed in 2019; however, recent analysis showed that the controls achieved even more savings since their original installation. With the addition of Intelli-Hood into 7 of the kitchens at the property, the hotel was initially able to reduce their operating costs by 38% but has since increased to 53%. The annual savings for the commercial kitchen utility costs was \$103,299. These DCKV controls have more than paid for themselves several times over just in the energy savings alone. Not only were they able



Total Energy Savings
\$103,299/Year



Carbon Dioxide
2,070,317 lbs/Year



Simple Payback Period
1.2 Years



Operating Expense Reduction
53%

to reduce their immediate energy consumption, but they created a more comfortable and quieter kitchen for staff and guests alike.

Annual Kitchen Hood Utility Costs (USD)

Figure A

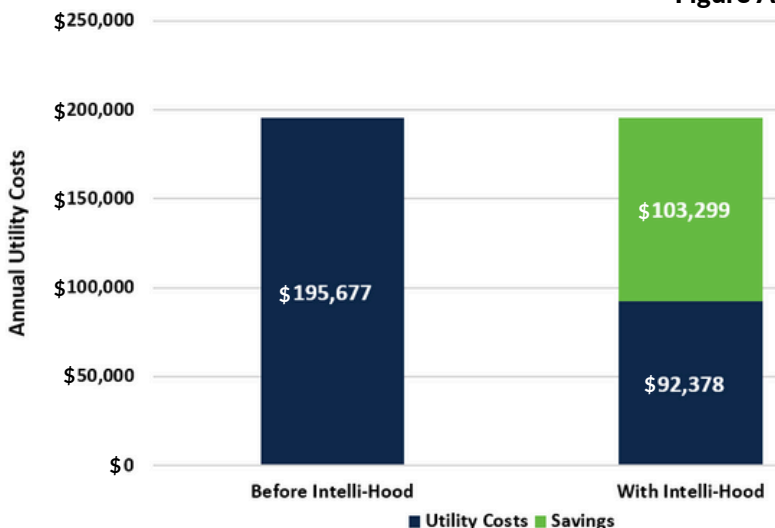


Figure B

Speed Profile for Fairmont Palm Dubai

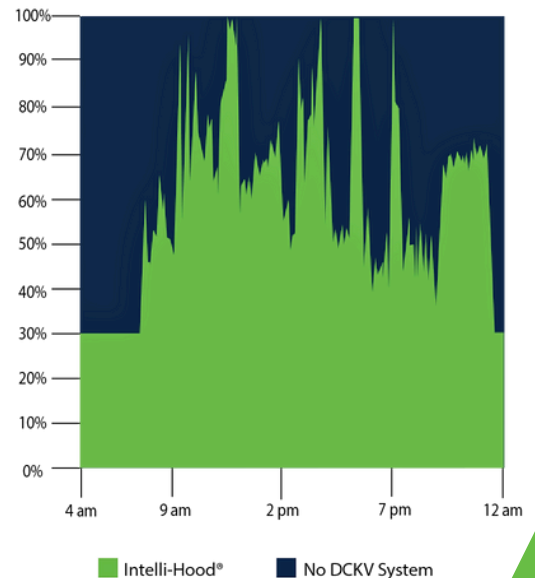


Figure B depicts the fan speed variations throughout a single day. The variations in fan speed are a result of changing cooking demand in the commercial kitchen.