



INTELLI-HOOD®

KEY SAVINGS

Overview

VOX Cinemas, a renowned entertainment destination in Dubai, faced significant utility costs due to inefficient ventilation and exhaust systems in their commercial kitchen. The cinema's HVAC (Heating, Ventilation, and Air Conditioning) system was leading to substantial energy wastage and high operational expenses, impacting their bottom line and environmental footprint.

The initial utility cost at VOX Cinemas was a staggering \$28,090 before the implementation of energy-saving measures. The need for a solution that could optimize ventilation, reduce operational expenses, and contribute to sustainability initiatives was apparent.

VOX Cinemas opted for an innovative solution: the installation of Intelli-Hood® DCKV controls. These cutting-edge, smart controls offered dynamic and intelligent ventilation management, ensuring optimal fan



Total Energy Savings
\$22,358/Year



Carbon Dioxide
270,713 lbs./Year



Simple Payback Period
1.1 Year

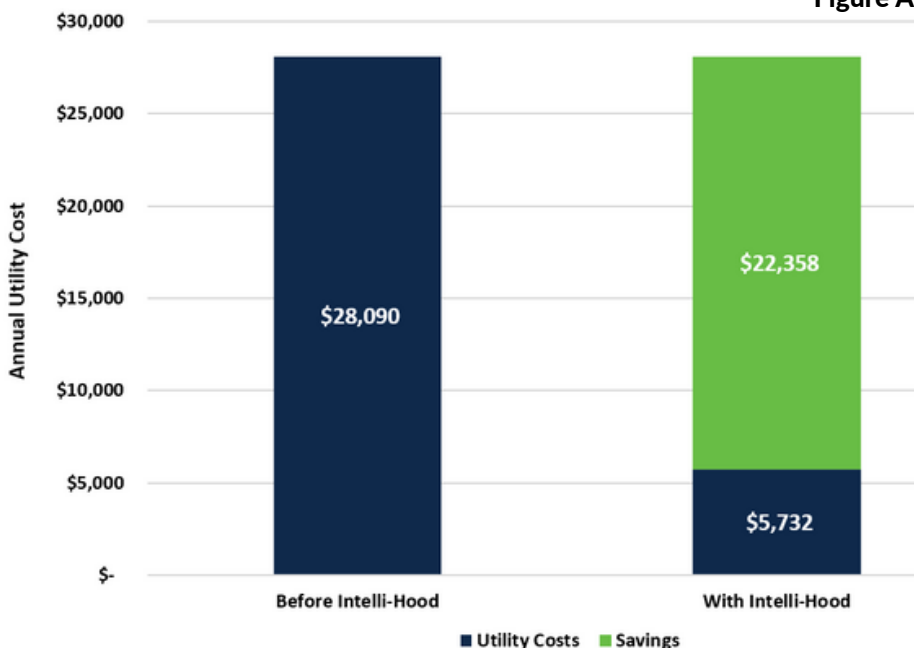


Operating Expense Reduction
80%

speed and exhaust based on real-time demand. The implementation of Intelli-Hood® aimed to revolutionize the energy consumption and operational efficiency in the cinemas' kitchen.

Annual Kitchen Hood Utility Costs (USD)

Figure A



Reason For DCKV

Intelli-Hood's seamless installation at VOX Cinemas' prioritized operational continuity while showcasing its advanced technology. The system's precision integration minimized disruptions, emphasizing its commitment to uninterrupted operations. Additionally, Intelli-Hood's innovative sensors monitor heat and smoke levels, dynamically adjusting fan speeds in response to cooking demand.

This responsive approach optimizes energy usage, aligning ventilation precisely with cooking needs to maintain comfort while minimizing unnecessary consumption.

Performance Results

The impact of installing Intelli-Hood® was profound. After implementation, noticeable and significant improvements were observed across various aspects of operations at VOX Cinemas.

Utility Savings: Post-installation, annual utility cost savings soared to \$22,358, with a substantial decrease from \$28,090 to \$5,732 in operational expenses, marking a significant financial shift (see **Figure A**).

Return on Investment (ROI): VOX Cinemas - Dubai witnessed an impressive ROI of 1.1 years, showcasing substantial cost savings and operational advantages derived from their investment.

Operational Expense Reduction: The implementation of Intelli-Hood® drove an impressive 80% decrease in operational expenses, bolstering the cinema's financial resilience and profitability.

CO2 Savings: Enhanced energy efficiency resulted in an annual reduction of

270,713 lbs. of carbon dioxide emissions, contributing significantly to VOX Cinemas' efforts in reducing their overall carbon footprint.

Enhanced Operational Efficiency: By maintaining the average fan speed at 44% within the commercial kitchens, the cinemas ensured ventilation closely matched cooking demand during operational hours. **Figure B** illustrates the dynamic adjustments in fan speed corresponding to cooking requirements. This deliberate approach significantly enhanced energy efficiency and cost-effectiveness in their operations.

Conclusion

The success of Intelli-Hood® at VOX Cinemas emphasizes the importance of investing in innovative, energy-efficient solutions. Intelli-Hood's installation was able to optimize VOX Cinemas' commercial kitchen performance, with minimal disruption to daily operations, while reducing energy waste. The integration of Intelli-Hood's cutting-edge smart technologies not only saves costs but also demonstrates a commitment to sustainability, enhancing brand reputation and customer satisfaction.

Vox Cinemas Main Kitchen Dubai UAE - Average Fan Speed

