

PF CHANG'S CASE STUDY

华馆 P.F. CHANG'S



INTELLI-HOOD® KEY SAVINGS

Overview

PF Chang's, a renowned restaurant chain known for its Asian-inspired cuisine, operates a branch in Festival City, Dubai. Seeking ways to enhance sustainability and reduce operational costs, PF Chang's decided to invest in Intelli-Hood®, a demand control kitchen ventilation system.

The primary goal was to optimize kitchen ventilation, reduce energy consumption, and subsequently lower utility costs while maintaining a comfortable and efficient kitchen environment.

Reason For DCKV

PF Chang's Festival City opted for the installation of Intelli-Hood®, a cutting-edge kitchen ventilation system designed to dynamically adjust exhaust and



Total Energy Savings

\$10,132/Year



Carbon Dioxide

125,708 lbs./Year



Simple Payback Period

1.1 Years



Operating Expense Reduction

30%

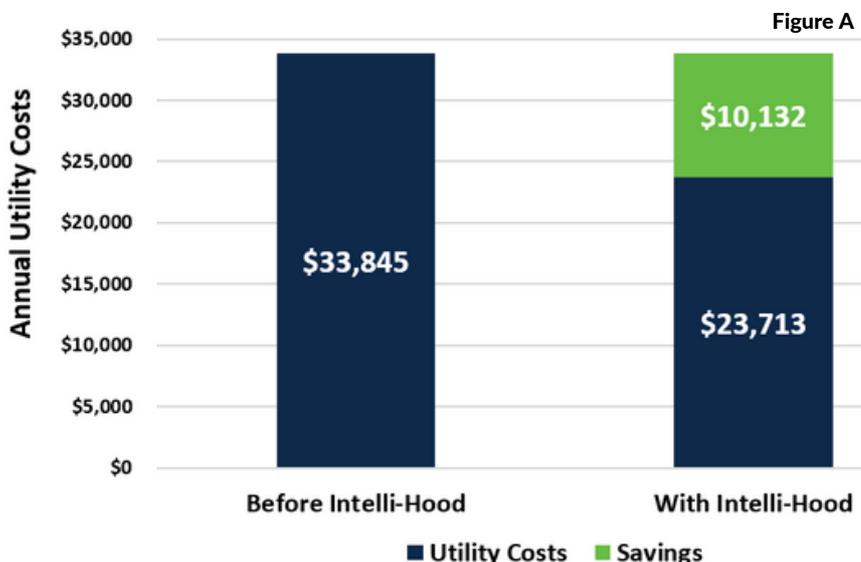
supply fan speeds based on cooking activity. The intelligent technology ensures that energy is used only when necessary, providing significant energy savings.

Results

Here are the results following the Intelli-Hood® installation at Festival City's PF Chang's location:

Financial Impact: Prior to the installation of Intelli-Hood®, PF Chang's Festival City incurred \$33,845 in utility costs annually. Post-installation, the restaurant experienced a remarkable reduction, with annual

Annual Kitchen Hood Energy Costs (USD)



utility costs dropping to \$23,713. This resulted in substantial savings of \$10,132. The simple payback period for the investment was a mere 1.1 years (Figure A).

Operational Efficiency: Intelli-Hood® contributed to a 30% reduction in operating expenses, showcasing the system's efficiency in optimizing energy usage. The intelligent control of fan speeds based on cooking activity ensures that energy is utilized precisely, aligning with PF Chang's commitment to sustainability.

Environmental Impact: In addition to financial gains, PF Chang's Festival City significantly decreased its carbon footprint. The installation of Intelli-Hood® resulted in a reduction of 125,708 lbs. of carbon emissions. This environmental benefit aligns with the growing emphasis on corporate social responsibility and sustainable business practices.

System Performance: The average fan speed of the Intelli-Hood® system at PF Chang's Festival City was maintained at 74% (Figure B). This optimal fan speed ensures effective ventilation while minimizing energy consumption. The system's adaptability to cooking activities and

real-time adjustments contribute to a balanced and energy-efficient kitchen environment.

Conclusion

The installation of Intelli-Hood® at PF Chang's Festival City stands as a testament to the positive impact of DCKV controls on both financial and environmental aspects. The 1.1 years simple payback period, substantial cost savings, and notable reductions in carbon emissions underline the success of this initiative. PF Chang's commitment to sustainability, coupled with the operational benefits of Intelli-Hood®, positions them as a leader in adopting innovative and eco-friendly solutions within the restaurant industry.



PF Changs Dubai Festival City Mall UAE - Average Fan Speed

Figure B

