

Price Chopper Refrigeration Fan Retrofit in Kansas City, MO

Background:

Price Chopper is one of the largest grocery chains in the Kansas City-metro area. Through its contractor, Design Mechanical, Inc., Price Chopper participated in a U.S. Department of Energy sponsored demonstration project to measure energy savings when upgrading from existing shaded pole and electronically commutated motors (ECMs) in refrigeration cases to the Q-Sync[®] smart, synchronous motor made by QM Power.



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Process:

The demonstration involved conducting a detailed energy audit of the refrigeration equipment in the store to analyze current energy usage. The audit was followed by a head-to-head comparison to measure the energy savings after replacing two incumbent shaded pole motors in a produce case with the Q-Sync[®] motors.

Results:

Oak Ridge National Labs performed the measurement and verification for the program. The findings of the report confirmed **Q-Sync[®] as the highest efficiency motor for commercial refrigeration applications.**

Outcome:

The reduction in energy usage from retrofitting the produce case with a Q-Sync[®] motor was an astounding **78.4%**, with an average of **81.9% amps saved**. The high potential for energy savings throughout the store prompted Price Chopper to retrofit the entire store as well as several other locations with Q-Sync[®] motors. Price Chopper also received utility rebates that have helped them reduce retrofit costs and improve their ROI.

Power Draw (2 motor assemblies)

