

# Featured Case Study

**CUSTOMER:**

Boise Fry Company, Portland, Oregon

**PRODUCT SPOTLIGHT:**

Demand Control Ventilation (DCV)

**CUSTOMER TESTIMONIAL:**

“CaptiveAire Systems installed the Demand Control Ventilation (DCV) System for Boise Fry Company, in Portland, OR, with built in CASLink Energy Monitoring. Demand controlled ventilation can save users money by operating the kitchen exhaust fans and dedicated make-up air at lower speeds based on the cooking demands of the kitchen. This reduced airflow also reduces the amount of gas and electricity required to heat or cool make-up air. Using CASLink’s energy monitoring data for fan energy consumption, CaptiveAire was able to measure actual energy and dollar savings as a result of implementing the DCV system as opposed to traditional on/off fan controls.”

The commercial kitchen in this case study is serviced by a one make-up air unit and one exhaust fan system. Over the course of three months, DCV reduced the average fan speed by 18%, resulting in 44% energy savings. This 18% reduction was a combination of running in ‘prep mode’ (20% capacity) during morning preparation times, and also cooking demand based turndown via duct temperature sensors directly.

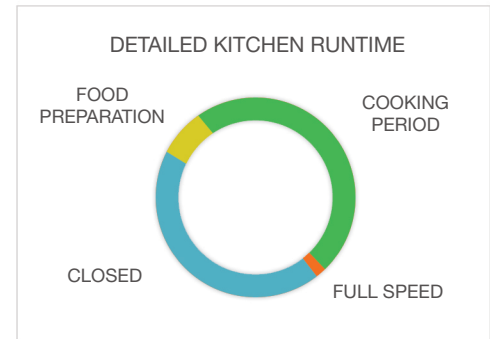
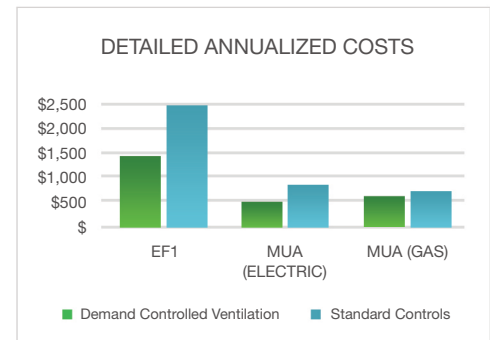
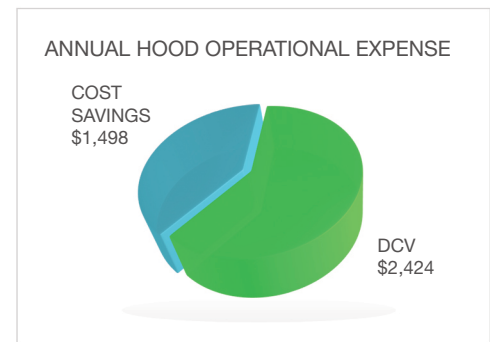
The reduced make-up air delivery will save an estimated 18% of gas usage annually. Using real-world data from the CASLink system, it can be concluded that the DCV system has a payback of less than one year.

**ANNUALIZED COSTS**

	DEMAND CONTROLLED VENTILATION (DCV)	STANDARD CONTROLS	COST SAVINGS	PERCENT SAVINGS
EF 1	\$1,404	\$2,457	\$1,052	45%
MUA (Electric)	\$429	\$741	\$312	44%
MUA (Gas)	\$591	\$725	\$134	18%
<b>Total:</b>	<b>\$2,424</b>	<b>\$3,923</b>	<b>\$1,498</b>	<b>39%</b>

Many utility companies offer incentives to implement demand controlled systems, further reducing the payback period or eliminating it all together. Ask your local CaptiveAire representative about energy rebates in your local area.

**ENERGY MONITORING DATA VISUALIZED**



**CUSTOMER INFORMATION:**

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