

Halton's Technology Leadership;

Providing L.E.E.D. Eligible Ventilation Solutions
for the Food Service Industry



Halton



Halton, the leading authority in foodservice ventilation technologies and innovations, offers products that exceed the requirements of current energy standards for commercial and institutional kitchens. Halton’s approach to ventilation designs is green conscious and focuses on total optimization of the energy consumption of the HVAC system. It improves well being of occupants and maximizes their productivity by improving indoor environmental quality.

When Halton’s products are integrated with the HVAC system, they offer synergies for achieving maximum energy efficiency and indoor environmental quality for the building. When pursuing approvals in accordance to ASHRAE standard 90.1 or going beyond to LEED certification, the synergies of Halton products translate to meeting or exceeding the requirements, and contribute to credits and points under the LEED rating system.

Under LEED certification, the credit compliance and points fall under two of the six categories of the LEED rating system, namely: Energy and Atmosphere (EA) and Indoor Environmental Quality (EQ)

The technologies described herein summarize the benefits of employing Halton’s products when pursuing LEED certification for building.

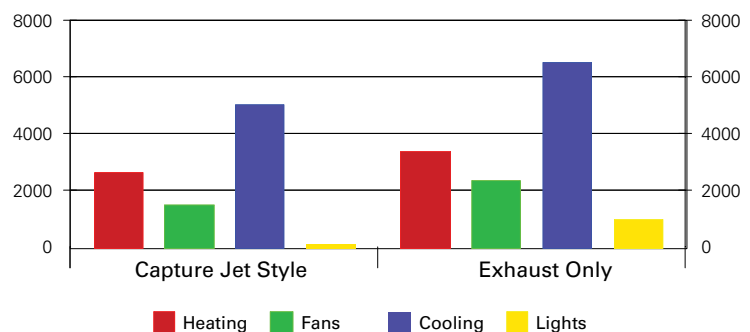
Capture Jet® Technology

Capture Jet hoods offer hood performance at low CFM to ventilate commercial cooking operations, with relative energy savings of at least 25% compared to other conventional hoods. These savings contribute to meeting EAp1 “Minimum Energy Performance” and contribute to EAc1 “Optimize Energy Performance” points threshold.

Table 1. System Annual Energy Costs, \$

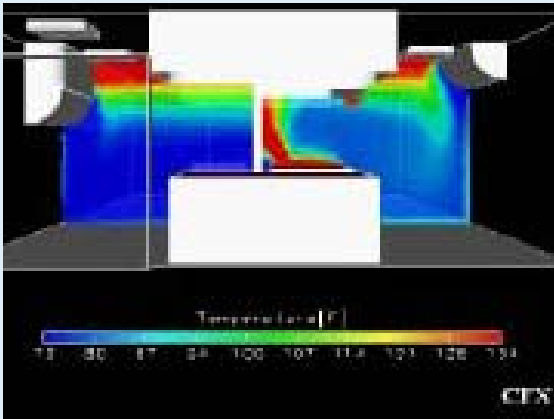
Hood	Heating	Fans	Cooling	Lights	Total
Capture Jet Style	2600	1468	5001	92	9160
Exhaust Only	3380	2343	6503	971	13198

Annual Energy Costs, \$



M.A.R.V.E.L. Demand Control Ventilation

This system with its smart controls can be integrated with the hoods to automatically adjust exhaust fan speed and modulate exhaust dampers based on the loading conditions under the hood(s). The M.A.R.V.E.L. enhances energy savings of the hood by up to 50% and its controls can be set up as a localized energy management system, or communicate with the total building energy management system. The system can also monitor and control the delivery of outdoor air and interact with other energy metering systems. The system can be programmed to communicate with sensors and devices, monitor and log data and help achieve EAc1 "Optimize Energy Performance," EQc1 "Outdoor Air Delivery Monitoring" and EAc5 "Measurement & Verification".



Displacement Ventilation

Halton's displacement ventilation (DV) air delivery system offers maximum air distribution effectiveness over traditional mixing systems at lower outdoor air volumes and offers enhanced thermal comfort, and facilitates increased ventilation at considerably less energy costs. The DV systems contribute to points under EAc1 "Optimize Energy Performance" and EQc2 "Increased Ventilation".

All products incorporate pressure ports simplifying the commissioning process of buildings and facilitate performance verification and automatic monitoring of performance. This feature helps the commissioning authority under EAp1 "Fundamental Commissioning of the Building Energy Systems" & EAc3 "Enhanced Commissioning", and simplifies EAc5 "Measurement & Verification".

Halton's steel products are more than 85% post consumer contributing to MRc4.1 or MRc4.2 for recycled content.



Halton is leading the way with improving indoor environmental quality. Halton offers business enhancing products, systems and services for comfortable, energy efficient, and safe environments for customers who value wellbeing of people. Halton is involved from target-setting to the facilities use and focuses on creating positive indoor environment experiences for people.

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All products meet or exceed minimum safety standards per ASHRAE, ASTM, UL, SMACNA, etc.,

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