

## **PRESS RELEASE**

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### **HALTON LAUNCHES ENERGY EFFICIENT BACKSHELF HOOD USING ROCKET SCIENCE METHODS**

**The Halton Group, one of the leading commercial kitchen ventilation companies, introduces new KVL backshelf hood. The hood is based on Halton's patented Capture Jet™ solution and advanced filter technology which, ensure an energy efficient healthy indoor kitchen climate.**

KVL is designed for low-proximity cooking applications. In a series of independent tests conducted by the Architectural Energy Corporation (AEC), the traditional style backshelf exhaust-only hoods required 100% more exhaust air to capture cooking effluent than the Halton hood during idle conditions. During cooking conditions, Halton KVL was 36% more energy efficient than the traditional backshelf hood.

Efficiency of the kitchen hood system is the key factor in creating comfortable and energy efficient conditions in commercial kitchens. The efficiency and excellent indoor-air quality of the KVL is based on the Capture Jet™ technology. An air barrier created by the Capture Jet™ prevents heat and effluent from cooking equipment from spreading into the working zone and thus maintains the kitchen climate at a comfortable level for staff.

In addition KVL is easy to maintain – filter units can be washed in a dishwasher and integrated balancing tabs ensure accurate balancing of the hood.

Halton Group has utilized Schlieren thermal imaging and CFD (Computational Fluid Dynamics) techniques in addition to traditional tests and third party verifications in developing kitchen energy efficient and comfortable ventilation systems and products.

Schlieren, used e.g. by NASA to evaluate shockwaves space shuttles, has provided an excellent device for understanding the behavior of thermal plumes and for identifying visually all the convective heat coming off the appliances. CFD is a tool for developing racecars and airplanes amongst others, but Halton has been able to utilize the tool for creating a three-dimensional computer model of the space in which temperature, velocities and flow directions can be identified.

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Photos available: [www.haltongroup.com](http://www.haltongroup.com) (news – press info)