

ecoarch
energy efficient
ventilation systems

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The Avtec EcoArch is the latest addition in premium ventilation systems that continues Avtec's reputation as an innovative, technology leader focused on providing solutions for our customers needs.

The Most Energy Efficient Ventilation System.

The Avtec EcoArch combines both an economical and environmentally safe solution for the need for high-quality, cost-effective ventilation performance in today's foodservice kitchens.

The EcoArch ventilation system addresses the growing need to reduce the amount of conditioned air from a kitchen space. The combination of the patent pending arch top and the front mounted high velocity exhaust slot **reduces the amount of exhausted CFM by 45%** compared to traditional CFM rates. This translates into an **annual electric and gas savings of up to 40%**.

Now that's maximizing your energy and cost savings!



INSIDE FRONT OF HOOD: Easy and safe accessibility to filter medium

Front Mounted Exhaust Plenum

The EcoArch is different from almost all other kitchen exhaust hoods on the market today. The exhaust plenum is in the front of the hood versus the traditional rear location to minimize exhausted kitchen air and for easier and safer access to the filter medium for cleaning and/or replacement.

High Velocity Exhaust Slot

Locating the high velocity exhaust slot as close to the top of the hood as possible allows the arched top to easily direct the contaminated heated air directly into the exhaust plenum. The slot is designed to create a rate of speed faster than the updraft velocities developing from the cooking process. This higher rate of speed, in conjunction with the arch, is the key to successfully capturing contaminated air at very low exhaust requirements.



INSIDE FRONT OF HOOD: High velocity exhaust slot allows contaminated air to flow directly into the filter medium



Environmental & Safety Solutions

At Unified Brands, we believe that utility conservation and energy efficiency are paramount to protecting our environment and ensuring the safety of food supplies for future generations. That's why select products, like the Avtec EcoArch Energy Efficient Ventilation System, bear the ENVIROSAFE Standard mark of distinction. They've been rigorously tested and proven to meet and exceed the criteria demanded by select certifications for environmental and food safety excellence. We are committed to the responsible conservation of our planet's natural resources. This product has been designed to reduce HVAC energy and costs less to operate than other products in the same category – without sacrificing performance or food safety.



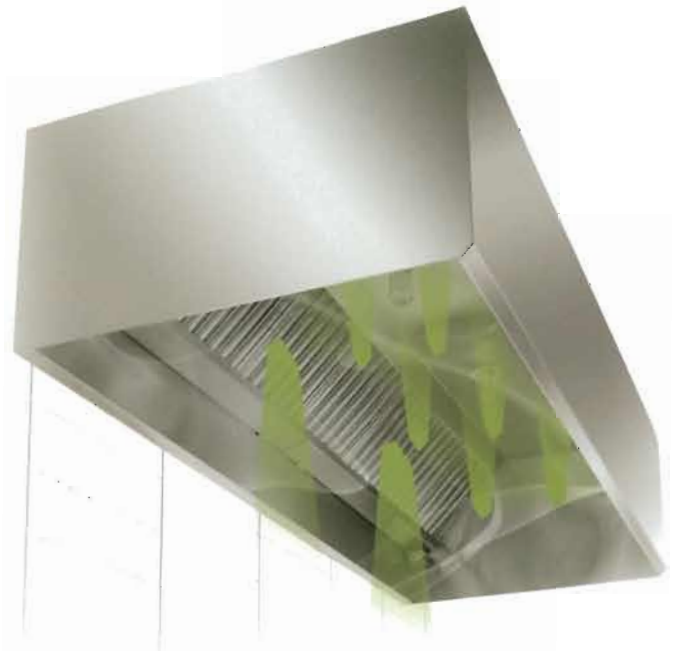
Exclusive Aerodynamic Arch

During the cooking process, contaminated heated air rises at various rates of speed up into the hood reservoir. A traditional exhaust hood allows up to 60% of the heated air to hit the perpendicular surface at the top of the hood creating an enormous amount of turbulence within the reservoir. Our exclusive arch top dramatically reduces the turbulence created by the heated updraft from the cooking process.

The arch dramatically reduces the amount of turbulence by directing contaminated heated air into the front location exhaust plenum. In contrast to traditional exhaust hoods, testing indicates that about 70% of the heated air is immediately exhausted out of the reservoir area. The remaining air is directed back by the arch towards the rear of the hood with little or no turbulence until it can be exhausted.



EcoArch Ventilation System
Contaminated air is directed to the exhaust slot through the arch top, minimizing turbulence



Traditional Ventilation System
Contaminated air is trapped within the hood and creates turbulence until it can be exhausted.



SAMPLE ENERGY SAVINGS

150 cfm/ft (EcoArch) vs. 250 cfm/ft (traditional unit)

12' Hood, 400°F, Gas & Electric, Based on 2006 Utility Rates

Location	cfm/ft	Annual Gas	Annual Electric	Total Energy Annually	Savings %
New York, NY	250	\$5425	\$1364	\$6789	
New York, NY	150	\$3255	\$828	\$4083	
Total Savings		\$2170	\$536	\$2706	40%
Atlanta, GA	250	\$3728	\$943	\$4671	
Atlanta, GA	150	\$2237	\$571	\$2808	
Total Savings		\$1491	\$371	\$1863	40%

Options

- PBB ceiling mounted perforated make-up air plenum box (shown above)
- Fire System end mounted enclosure cabinet
- Ceiling enclosure panels
- Hanging Rods
- Pre-piped wet chemical fire extinguishing system
- Wall flashing
- Hood mount fan on/off buttons



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