

AVTEC EcoArch Ventilation System

Avtec provides the most energy efficient ventilation systems to combat rising energy costs.

EcoArch Competitive Features and Benefits: Exclusive Aerodynamic Arch

The Avtec EcoArch has a patent pending arch top which dramatically reduces the turbulence created by heated updrafts during the cooking process. The traditional exhaust hood allows up to 60% of the heated air to hit a perpendicular surface at the top of the hood, creating an enormous amount of turbulence. Testing proves that our unique **arch design directs 70% of the heated air immediately into the exhaust reservoir area**. The remaining amount of heated air is directed back by the arch towards the rear of the hood with little or no turbulence until it can be exhausted.

Front Mounted Exhaust Plenum

The front mounted exhaust plenum location allows the arched top to easily direct the contaminated heated air into the high velocity exhaust slot. The **design creates a rate of speed faster than the updraft velocities** developing from the cooking process. The combination of the arch top and the front mounted high velocity exhaust slot **reduces the amount of exhausted CFM by 45%** compared to traditional CFM rates.

In addition, by locating the exhaust plenum in the front of the hood versus the traditional rear location there is **easier and safer access to the filter medium for cleaning and/or replacement**.

Environmental & Safety Solutions

By reducing the amount of conditioned room air exhausted from a kitchen workplace, the **Avtec EcoArch provides up to 40% annual savings in electric and gas costs**. Depending on geographical location and utility rates, most Avtec EcoArch installations will pay for themselves within two years.

EcoArch has been rigorously tested and proven to meet and exceed the criteria demanded by select certifications for environmental and food safety excellence. This product has been designed to significantly reduce HVAC energy and costs less to operate than other products in the same category – without sacrificing performance or food safety.



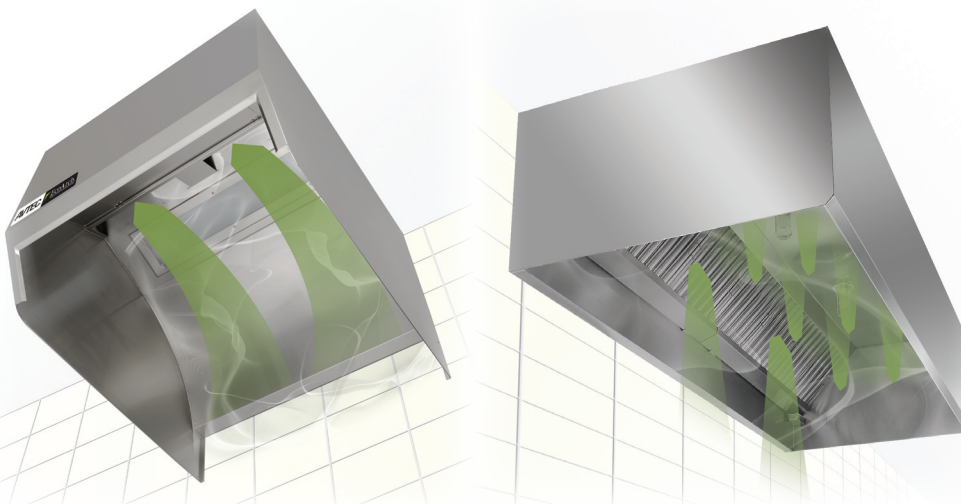
Contaminated air is directed to the exhaust slot by the arch top, minimizing turbulence



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



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









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



COMPETITIVE CHART:

Product/Features	Up to 40% Energy Savings	Exclusive Arch Top	Front Exhaust Plenum	High Velocity Slot Located at Top of Hood	Easy and Safe Access to Filter Medium
 ecoarch energy efficient ventilation systems	YES	YES	YES	YES	YES
	Industry Standard	Flat	Rear	Bottom Of Hood	Must Climb Over Cooking Equipment
	Minimal Energy Savings	Flat	Rear	Bottom Of Hood	Must Climb Over Cooking Equipment
	Industry Standard	Flat	Rear	Bottom Of Hood	Must Climb Over Cooking Equipment
	Industry Standard	Flat	Rear	Bottom Of Hood	Must Climb Over Cooking Equipment
	Industry Standard	Flat	Rear	Bottom Of Hood	Must Climb Over Cooking Equipment

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%