



## WHO IS KES?

Kitchen Energy Solutions is a division of Air Solutions & Balancing, LLC with over 15 years of experience with turnkey demand control kitchen ventilation (DCKV) systems. With certified energy managers (CEM), energy auditors (CEA) and certified technicians, **we are able to maximize energy efficiency in your commercial kitchen!**

## WHAT IS DEMAND CONTROL KITCHEN VENTILATION?

In commercial kitchens, exhaust and supply fans are running continuously throughout the day – even when little to no cooking is taking place! Demand Control Kitchen Ventilation (DCKV) systems will **automatically control the speed of these units** by measuring the level of cooking activity. The ecoAZUR system is the pinnacle of this technology, offering the highest energy savings available and unmatched performance.



### *ecoAZUR*

ecoAZUR brings energy savings to commercial kitchen's electric, heating and cooling usage in the most efficient way possible. The system uses real-time detection of particulate and temperature changes to adjust kitchen fan speeds when and where needed. ecoAZUR uses optic sensors, temperature sensors and optional modulating dampers to ensure the highest amount of savings for any commercial kitchen hood. This results in a clean, comfortable kitchen and energy savings that impact your bottom line.



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*Nationwide distributor of the ecoAZUR demand control kitchen ventilation system*

## SOLUTION FOR EVERY KITCHEN

- Multiple sensor configurations
- Retrofit and new construction
- Turnkey installations
- Any hood size and style

## UNMATCHED PERFORMANCE

- Waterproof / greaseproof sensors
- Constant auto-calibration
- Individual sensor settings
- Compatible with any Variable Frequency Drive (VFD)

## OPTIMAL ENERGY SAVINGS

- Only product on market able to modulate from 0-100%
- Always active and monitoring sensors
- Multiple cooking modes maximize savings
- Highest energy savings available

## SERVICE START TO FINISH & BEYOND

- Complimentary site audit
- Free energy analyses
- Remote monitoring & Cloud services available

A 1 DAY LOOK INTO A KITCHEN EXHAUST FAN UTILIZING THE ECOAZUR SYSTEM.

➤ **COMPARE THIS TO RUNNING AT 100% ALL DAY LONG!**



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## **ECOAZUR DEMAND CONTROL SYSTEM AS COMPARED TO COMPETITIVE SYSTEMS**

### **WHAT IS ECOAZUR?**

ECOAZUR by Intellinox is the most efficient energy saving DCKV, (Demand Control Kitchen Ventilation), system available in the industry. The combination of blue light technology, canopy-mounted heat sensors, and plug and play expandable design make ECOAZUR the ideal choice when energy savings are the goal.



### **ecoAzur<sup>®</sup> OPTIC SENSORS**

ECOAZUR blue optic sensors allow for a wide field of view and a quick reaction to effluents, smoke and vapors making the system much more efficient than heat-only systems. This is especially important over steamers, combiovens, charbroilers, and induction cooking appliances. These sensors stand up to grease therefore eliminating the need for an additional fan to keep the lenses clean. The ECOAZUR sensor is totally water proof and impervious to grease and any cleaning methods. Unlike infra-red heat sensors, the optic sensors can respond very quickly to steam, smoke and vapors, reacting almost instantaneously to increase the fan speed to capture them before they can escape the hood canopy.

### **RETRO-FIT OPTIONS**

The ECOAZUR system can be retro-fit into existing locations and hoods in the field, no matter what configuration or manufacturer. Hoods can be added to an existing operation and ECOAZUR can control them all. Multiple hoods on the same fan can utilize the ECOAZUR patent pending modulating dampers without cutting ductwork or field welding. Virtually any kitchen exhaust system design can be upgraded with ECOAZUR.

### **EQUIPMENT LOCATIONS**

The ECOAZUR sensors allows for easy moving or changing the equipment under the canopy. No need for re-aiming or recalibrating surface detectors. ECOAZUR optic sensors are auto-calibrating and function no matter what the equipment being utilized.



# ONE RESPONSIBILITY

Since Kitchen Energy Solutions (KES) provides the entire package, including the system, installation, programming, commissioning and start-up, ECOAZUR can be installed limiting not only the field connections, but the responsibility for them. KES eliminates questions from the field and eliminates "finger pointing" as to the responsibility for the system by being onsite and working with the trades and personnel to make sure the system is operating at it's optimum.



## COMPARISON ECOAZUR VS COMPETITION

FEATURE	ECOAZUR	MARVEL	MELINK	CAPTIVE AIRE	TYPICAL HEAT-ONLY SYSTEMS
Temperature Sensors for measuring heat production	✓	✓	✓	✓	✓
Optic Sensors for detecting smoke and steam	✓	X	✓	X	X
Blue light technology for providing the widest modulation under cooking conditions	✓	X	X	X	X
Water proof Optic Sensors for easy and safe hood cleaning	✓	X	X	X	X
Constant auto-calibration of Optic Sensors	✓	X	✓	X	X
Optic Sensor able to display fault with visual light	✓	X	X	X	X
System able to be cycled on and off automatically via temperature	✓	✓	✓	✓	✓
System able to be cycled on and off automatically via smoke and steam	✓	X	✓	X	X
Prep, Cooldown, and Idle modes to maximize energy savings	✓	X	X	✓	X
System keypad able to display any faults	✓	✓	✓	✓	X
Able to provide modulating dampers for multiple hoods on same fan	✓	✓	X	X	X
Able to provide retro-fit system in existing facilities regardless of hood manufacturer, including modulating dampers	✓	X	X	X	X
Cloud platform for remote access and performance analysis	✓	✓	✓	✓	✓



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