The new and advanced CaptiveAire® ventilation package is engineered to be the most energy efficient system in the industry. With the evolution of each component, users experience lower operating and installation costs with a system that effectively captures effluents without excessive CFMs. Benefits of the CaptiveAire package include:

- A fully integrated ventilation system
- Delivery of make-up air using the economizer concept, supplying ambient air between 50°F and 85°F
- Delivery of make-up air through a perforated supply plenum (PSP) which significantly decreases HVAC load while supplying air where it is needed for proper exhaust

The new and advanced CaptiveAire ventilation package offers maximum efficiency, a comfortable environment, and is the choice of discriminating buyers and specifying engineers.
Filtered Intake
- Industrial Metal Mesh Filters
- Intake Screen
- Rain Gutters
- Optional V-Bank or Evaporative Cooler Configurations

Direct Fired Heater
- Electronic Flame Modulating
- 1,000 to 21,000 CFM
- 19,000 to 2,500,000 BTUs
- Service Doors Both Sides of Unit
- Self-Adjusting Burner Profile Plates (allows 2-speed motors and variable air volume applications)
- Economizer Inlet Thermostats (for Heating and Cooling)
- Redundant Safety Valves and Components
- Stainless Steel Burner
- Insulated Housing

Blower Section
- Vibration Isolation
- High Efficiency Motors
- Adjustable Drive Sheaves
- Service Doors on Both Sides of Unit
- Disconnect Switch
- Insulated Housing

DX (Direct Expansion) Cooling Coil
- 3 Ton to 50 Ton Cooling
- 1,000 to 14,200 CFM
- Stainless Steel Drain Pan
- Access Doors Both Sides of Coil
- Insulated Housing

Downturn Plenum
- Used in Down Discharge Cooling Applications
- Fully Insulated Housing

Exhaust Fan
- Heavy Duty Weatherproof Construction
- Fully Welded Leakproof Grease Drain
- Vibration Isolation
- External Disconnect Switch
- Adjustable Motor Sheave
- Quick Release Service Latches
- Complete Range of Motors

Exhaust Hood
- Superior Low Exhaust Flow Rates
- Exceptional Capture and Containment of Cooking Vapors
- Stainless Steel Construction
- Double Wall Insulated Front
- Heavy Duty Grease Baffle Filters
- Grease Drain System
- Pre-Punched Hanging Angles
- Pre-Wired Lighting

Ductwork
- Round Exhaust Ductwork
- Non-Welded Seams
- Fully Insulated for Clearance Reduction

ACPSP
- 12 MUA Plenum and AC Plenum In One Housing
- Delivers AC where it is needed most
- Insulated AC Plenum
- Convenient Termination for AC Ductwork in Kitchen
- AC Air Does Not Interfere with Hood's Capture and Containment

Electrical Control Package
- Fully Integrated Fan and Fire System Controls
- As-Built Wiring Schematics
- Minimizes Cost and Complexity of Field Wiring
- Numbered Terminal Blocks
- Color Coded Wiring
- Can be Installed in Listed Utility Cabinet on Hood

Fire System
- Pre-Piped Fire Protection System
- Factory Installed Nozzles, Detectors and Tanks
- Can Be Installed in Listed Utility Cabinet on Hood

NOTE: Air conditioned air for the AC portion of the plenum is supplied by the building HVAC system. The HVAC equipment is supplied by others.
Computational Fluid Dynamics (CFD) is a tool that allows visualization of temperature and air flow. The above image documents temperature path lines of air exiting the ACPS. As illustrated, the AC air is going into the kitchen and the make-up air is going into the exhaust hood.

CaptiveAire’s expert engineers carefully examine, design, and integrate ventilation component technology to produce the most efficient system offered in the industry. We then commit the resources to develop and produce the products that exceed the market’s expectations. Our patent pending plenum (ACPS) is an example of our ongoing process of defining and researching industry needs, and then manufacturing a superior product.