



OPPORTUNITY



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Systems For The Engineered Environment

March 2007

Welcome to **OPPORTUNITY**, a monthly newsletter provided by Jacco & Associates. Jacco's focus on engineering and design concepts will improve your HVAC system while significantly reducing design time, making you more productive for your clients.

March Feature:



jZone Platinum Edition



Welcome to the jZone, the modern answer to the VVT system. Jacco furthers the energy savings opportunities in the Platinum Edition by adding air-to-air heat pump operation (water source is also available), and a CO2 sensor for demand control ventilation. The air-to-air heat pump provides heating when the ambient temperature is above 17°F. When the OAT falls below 17°F the natural gas heat exchanger (electric, water or steam also available) will be activated. This provides a **HYBRID** heat situation where the building owner utilizes the most economical source for heat. The CO2 sensor is factory mounted in the return air stream of the rooftop unit. When the CO2 measurement rises above setpoint the unit goes into CO2 control, opening the OA damper to introduce fresh air into the space. When the CO2 levels are below setpoint the rooftop unit allows only minimum OA reducing energy consumption for heating and cooling.

Aaon Standard Features

- R410a Refrigerant
- Slide Out Blowers
- Hinged Access Doors
- Color Coded Wiring Diagrams
- Copeland Scroll Compressors
- Controls & Burner Compartment
- 5 year compressor parts warranty
- 15 year heat exchanger parts warranty

Silver Edition

- Supply Fan with Factory Installed VFD
- Multi-stage Heat exchanger
- Zone Dampers
- LCD Touchscreen Interface

Gold Edition

- Total Energy Recovery Wheel
- Exhaust Fan with Factory Installed VFD
- Constant Volume OA Control
- Supply Fan with Factory Installed VFD
- Multi-stage Heat exchanger
- Zone Dampers
- LCD Touchscreen Interface

Platinum Edition

- Air-To-Air Heat Pump*
 - Water Source Option Available
 - Demand Control Ventilation
 - Total Energy Recovery Wheel
 - Exhaust Fan with Factory Installed VFD
 - Constant Volume OA Control
 - Supply Fan with Factory Installed VFD
 - Multi-stage Heat exchanger
 - Zone Dampers
 - LCD Touchscreen Interface
- *Some airflow restrictions apply

March Question & Answer:

Question: How much energy does a motor consume running at 50% rpm with a VFD compared to a motor running at 100%?
a.) 60% b.) 45% c.) 30% d.) 15 %

Prize: (4) Cleveland Indians Tickets!

Respond to this email by the 10th with the correct answer and be entered into a raffle for this month's prize!

January Question & Answer:

Question: At what percentage of outside air does the initial cost of an Aaon unit with energy recovery become less than one without? (Assume equivalent system tonnages)

Answer: 30% - Congratulations to Joe Pustai for winning a Cannon Power Shot digital camera!