



# SOLUTIONS



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*Focused on The Engineered Environment*

February 2013

Welcome to SOLUTIONS, a monthly newsletter provided by Jacco & Associates. Jacco's focus on system knowledge provides you with the engineering support and product solutions for your applications.

## February Feature:

## New AAON Heat Pump Capability

### Single Zone VAV Heating (with variable capacity compressor)

A single zone system is great for saving energy during part-load conditions by reducing the supply fan speed and unloading the compressor(s) when less heat is needed.

As less heating is needed the supply air flow is reduced. Airflow across the indoor coil is reduced, discharge air temperature will tend to rise. The system will reduce compressor capacity (reduction in compressor power usage) to maintain a constant discharge air temperature.

Also, because fan power is proportional to the cube of the fan rotational speed, at 1/2 fan speed, the supply fan energy will be only 1/8 of the design horsepower!

This new capability will provide significant energy savings.



Some typical applications:

- Restaurants
- Retail Stores
- Theaters
- Conferences Rooms
- Classrooms
- Reception areas
- Places of Worship
- Offices
- Gymnasiums
- Auditoriums
- Kitchens
- Libraries



## February Question & Answer:

**Question:** Which Of The Following Systems Are Available As Single Zone VAV?

A.) Packaged RTUs B.) Split Systems C.) Geothermal D.) A, B, C

**Prize:** Sony Playstation 3!

## Last Month's Question & Answer Winner!

**Question:** What other manufacturers utilize EC Motors?

**Answer:** D.) Aeon, Water Furnace & Bousquet. Congratulations To Lenny Hendrix For Winning A Beats Pill, Portable Wireless Speaker!

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