



PPORTUNITY



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Focused On The Engineered Environment

May 2012

Welcome to PPORTUNITY, 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.


May Feature:

Posted originally 5/1/2012.



Advanced Energy Design Guide for Large Hospitals

Achieving 50% Energy Savings Toward a Net Zero Energy Building



Developed by:
ASHRAE
The American Institute of Architects
Illuminating Engineering Society of North America
U.S. Green Building Council
U.S. Department of Energy

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This excerpt is taken from ASHRAE's Advanced Energy Design Guide For Large Hospitals which was posted on 5/1/12. To download your free copy go to www.ashrae.org.

Evaporative condensers use wetted pads to cool ambient air as it enters an air-cooled condenser, which increases the condenser capacity and cools the liquid refrigerant, thus reducing compressor load compared to air-cooled equipment. Note that evaporative media require regular periodic maintenance to assure savings. Ensure this maintenance is done properly. This technology works in climates with a large wet-bulb depression. Evaporative condensers, where a tubular coil is directly wetted by the spray water, can also be used to achieve substantial energy savings on the order of 50% or more over air-cooled systems. These units operate similarly to closed-circuit cooling towers, except that the system refrigerant is condensed directly in the tubes. Note that in such installations, the refrigerant charge is increased over a typical water-cooled system.



This design guide showcases an energy study based on the Cleveland Clinic Twinsburg facility which features Aaon evaporative cooled units and Munters desiccant systems.



May Question & Answer:

Question: Buildings consume approximately what percent of all the energy in the US?

A.) 20% B.) 30% C.) 40% D.) 50%

Prize: (4) Tickets To Cedar Point!

Respond by June 15th with the correct answer to be entered in the raffle for this month's prize!

Last Month's Question & Answer Winner!

Question: In ASHRAE 90.1-2010 what is the minimum hp/btuh required to require Single Zone VAV?

Answer: B.) 5/110,000. Congratulations to James Dudt for winning a Charbroil Gas Grill!

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61 Milford Dr. Hudson, OH 44236 Phone:(330) 463-0100 Fax:(330) 463-0101