



PPORTUNITY



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Systems For The Engineered Environment

November 2006

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.





November Feature:



Humidification



Jacco & Associates can solve all of your humidification needs. Whether you need gas fired, electrode, resistance or adiabatic humidification we have you covered. Here is a simple reference chart to help understand and apply these systems.

Type	System Description	Range (#/hr)	Water Treatment	Control	Install	Advantage
Gas Fired 	Gas fired steam humidifiers produce clean atmospheric steam using the combustion of natural gas through a submerged stainless steel heat exchanger	13 - 1,870	None, softened or RO	On/Off or Modulating	Room, Duct, or Unit	Clean humidification at a moderate price
Electrode 	Electrode steam humidifiers use the conductivity of potable water to boil it and produce clean atmospheric steam. Each humidifier includes one or more plastic cylinders containing a pair of electrodes and mesh assembly.	11-1,000	None or softened	On/Off or Modulating	Room, Duct, or Unit	Inexpensive with simple maintenance
Resistance 	Resistance steam humidifiers produce steam through the use of electric resistance heating elements to boil water in a stainless steel tank.	9 - 1,000	None, softened or RO	On/Off or Modulating	Room, Duct, or Unit	Low cost
Adiabatic 	Adiabatic systems use high-pressure pumps to pressurize treated supply water to between 1,000 and 2,000 psi. The stainless steel, nozzles then atomize the water into billions of ultra-fine fog droplets.	200+	Softened or RO	Modulating	Room, Duct, or Unit	Clean humidification with very low operating cost

***Jacco has your humidification solutions covered – contact us for more information today!
VAPAC will be in town the week of November 20th, call today to make an appointment!***

November Question & Answer:

Question: At what percent humidity change does a person relate to a 1°F temperature change?
a.) 5% b.) 10% c.) 15% d.) 20%

Prize: (2) Cleveland Cavaliers Tickets

Respond to this email by the 1st with the correct answer and be entered into a raffle for this month's prize!

October Question & Answer:

Question: In an energy study of a warehouse building measuring 180' x 360' x 26' with a 6,700mbh heat loss, how much money was saved in utility bills for a 90 day period versus a unit heater system?

Answer: \$14,000 – Congratulations to Pat Klanac for winning (2) single day passes to Holiday Valley Ski Resort!

Did you know that MeeFog humidification can be used as a special effects tool, and was utilized in the movie Jurassic Park?