



# SOLUTIONS



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*Focused on The Engineered Environment*

September 2008

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.

## September Feature:



## HUMIDIFICATION



Humidity control during the winter is just as important as dehumidification in the summer. As we continue to heat along the sensible line the supply air is dehumidified, causing moisture to be absorbed from the space and reducing the overall relative humidity of the air. Variations in the humidity of ambient air can have undesirable or harmful effects upon surrounding objects. Objects either absorb or give up water content until a point of equilibrium with its environment is reached. Objects such as paper, wool, cotton, tobacco, timber, furniture, plants, animals and even people are affected by relative humidity. Dry atmosphere can cause textiles carpet, wood paper, leather, plastics, etc. to shrink, harden, crack, spoil, and lose weight. Results can be damaging, expensive and uncomfortable. Some of the benefits of humidification include increased employee comfort and productivity, protection of valuable furnishings and art, provide the environment required for specific processes, maintain materials, reduce static electricity, and reduce the likelihood of airborne virus distribution to name a few. Today's equipment provides you with multiple solutions based on your customers needs.

Type	System Description	Range (#/hr)	Water Treatment	Control	Install	Advantage
Gas Fired <b>Vapac</b>	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-DI	On/Off or Modulating	Room, Duct, or Unit	Clean humidification at a reasonable price
Electrode <b>Vapac</b>	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 <b>Vapac</b>	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-DI	On/Off or Modulating	Room, Duct, or Unit	Low cost
<b>MEE INDUSTRIES INC.</b>	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-DI	Modulating	Room, Duct, or Unit	Clean humidification with very low operating cost

**Be sure to mark your calendars for Jacco's Hospital and Healthcare Seminar on October 20th! Details to follow.**

## September 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:** Sanyo GPS!

Respond by October 3rd with the correct answer to be entered in the raffle for this month's prize!

## Last Month's Question & Answer Winner!

**Question:** What other energy savings does the Hasting's AFX Aeroflo system provide?  
**Answer:** All of the above. Congratulation to Brian Rice for winning a Ping Putter!

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Questions or comments? E-mail us at [opportunity@jacco.com](mailto:opportunity@jacco.com)



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