



The HVAC&R Industry

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Advancing HVAC&R to Serve Humanity
And Promote a Sustainable World

The HVAC&R Industry, ASHRAE's free weekly eNewsletter for HVAC&R professionals, provides relevant, timely information about industry and technology for people who create healthy, comfortable indoor environments.

Industry News

Higher Indoor Temperatures May Be Contributing to Obesity

LONDON—Higher indoor temperatures during the winter may be contributing to rising rates of obesity in the United States and other developed countries. A new study from researchers at University College London says that reduced exposure to cold may affect the ability to maintain a healthy weight by minimizing the need for energy expenditure to stay warm. They say it also may reduce the body's capacity to produce heat

Sustainability at Heart of \$45 Billion in U.S.–China Export Deals

WASHINGTON—The governments of the U.S. and China have announced more than \$45 billion in export deals. More than two-thirds of them involve energy efficiency, emissions reduction and clean technology solutions. Of the 31 transactions, projects and memoranda of understanding (MOU) cited by the U.S. and China, 22 are "green" business deals involving more than a dozen U.S. firms, including Duke Energy, General Electric, Alcoa, Cummins, Boeing, Pratt & Whitney and Honeywell. The arrangements include plans to develop technology for environment-friendly cities, renewable energy projects, carbon capture programs, and solutions to make coal plants and mines more environmentally responsible.

Skyscrapers as Theme Parks

NEW YORK—An architect is designing skyscrapers that function as theme parks. New York-based Ju-Hyun Kim recently unveiled vertical theme park prototypes that he envisions will be built in the middle of cities to reduce sprawl and to be environment-friendly. Kim's prototypes place a carousel at the top of a skyscraper. Skyscrapers would also house flume rides, rollercoasters, Ferris wheels and bungee-jumping platforms.

World's Largest Solar PV Project Receives DOE Loan Guarantee

CARLSBAD, Calif.—A 290 MW thin-film solar project that the developer claims will be the world's largest photovoltaic (PV) project has received a \$967 million loan guarantee from the U.S. Department of Energy (DOE). NRG Solar's Agua Caliente solar generating facility in Yuma County, Ariz., is scheduled to be completed in 2014. It will provide power to about 100,000 homes.

Skyscraper Boom in China

BEIJING—China has surpassed the United States as the skyscraper's home. If the fast-growing nation continues its current pace of urbanization, China could build more than 1,500 new buildings that are more than 30 stories high by 2030. That is the equivalent of a new Chicago every year, according to a recent McKinsey & Co., report. China is building 44% of the skyscrapers scheduled to be completed worldwide in the next six years, increasing the number of skyscrapers in Chinese cities by more 50%. China is already the site to six of the 15 tallest completed buildings in the world. The U.S. has three.

ASHRAE News

ASHRAE Duct Fitting Database Becomes Mobile App

ASHRAE's popular Duct Fitting Database desktop application is now available as a smart phone app. The app allows users to perform pressure loss calculations for more than 200 HVAC duct fittings in both I-P and SI units. The mobile app features dynamic illustrations of each design, and inputs can be adjusted by touch. Developed for Apple's iPhone, iPod touch and iPad, the ASHRAE Duct Fitting

**TOTAL
INSTALLED
COSTS**



is the only true measure that gives you the whole picture when comparing HVAC design alternatives.



Learn more ▶▶



Database (DFDB) app can be purchased through Apple's online iPhone App Store for \$19.99.

Feature of the Week

Staying On-line: Data Center Commissioning

By **Mark Hydeman, P.E.**, Member ASHRAE; **Reinhard Seidl, P.E.**, Member ASHRAE; and **Charles Shalley, P.E.**

This article presents a process that can be used to review and test the system design to achieve a high degree of system reliability. It also emphasizes the importance of close coordination required in the design of the electrical, mechanical and control systems and summarizes the experience of two firms (one mechanical and one electrical) that have collaborated in the design and commissioning of many data centers.

Product News

Energy Recovery Ventilator From Munters

SELMA, Texas—The DryCool ERV from Munters provides energy recovery and dehumidification in a single packaged unit. This product provides the dehumidification requirement of the entire building and cools or heats the airstream to the desired space temperature. Units range from 1,000 cfm to 16,000 cfm (480 L/s to 7600 L/s).

BACnet-Compatible Controller Package From Neptronic

MONTREAL—Neptronic (National Environmental Products) offers an intelligent fan-coil controller package in BACnet-compatible controller module (EFCB) or stand-alone-control-module (EFC) versions. All high and low voltage outputs are centralized at the control module in the fan coil cabinet.

Fan Inlet Air Measurement Station From Ruskin

KANSAS CITY, Mo.—The EFAMS electronic fan inlet air measurement station from Ruskin uses thermal dispersion technology combined with low-pressure-drop aerodynamic sensors to measure airflow in any size fan at the highest velocity point in the system. The lower pressure drop equates to lower cost of operation over the life of the building, compared to traditional fan inlet devices. The device features an LCD display showing temperature and airflow velocity or volume.

Subscription Management

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