



The
HVAC&R Industry
A weekly eNewsletter from ASHRAE



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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

Ventilation System Stars in 'Scent Opera'

NEW YORK—Fläkt Woods has created an air system for a "scent opera," which recently had five performances at the Guggenheim Museum. Audience members listened to music in a darkened theater while a "scent organ" designed by the Swedish air-movement products manufacturer triggered "scent microphones" attached to each seat that emitted suggestive scents to tell a story. The system uses compressed air that is ducted to pick up one of 35 odors loaded into cartridges in the scent organ. The company says that it will incorporate scent-based technology into applications such as retail areas and hotels.

Engineering Dropout Rate Not Overly High, Say Researchers

WEST LAFAYETTE, Ind.—Engineering does not have a higher dropout rate than other collegiate majors, and women perform academically as well as men, according to research by Purdue University. The findings were based on examination of a database of 70,000 engineering students that were followed over a 17-year period ending in 2005.

Energy-Efficiency Measures Could Save U.S. \$1.2 Trillion by 2020, Says Study

NEW YORK—The United States could save \$1.2 trillion by 2020 from widespread use of energy-efficiency measures, according to research by consulting firm McKinsey & Co. The report says the savings could be achieved with an initial investment of about \$520 billion in measures such as better insulation for buildings and more energy-efficient appliances. It added that codes, standards, and public awareness all must improve in order to reach such a level of savings.

Home Depot, Habitat for Humanity To Build 'Green' Homes

ATLANTA—Habitat for Humanity and the Home Depot Foundation are partnering to build sustainable homes throughout the United States. The organizations expect nearly 1,500 homes to be built by the end of 2010 in 45 states. A smaller pilot program begun in 2008 resulted in 263 homes being built. Nearly half achieved the ENERGY STAR label and some were certified LEED Platinum.

Feature of the Week

Preventing Defect Claims in Hot, Humid Climates

By **K.R. Grosskopf, Ph.D.**; **P. Oppenheim, Ph.D., P.E.**, Member ASHRAE;
and **T. Brennan**, Member ASHRAE

This article provides guidance on mitigating HVAC-related envelope claims caused by moisture-related construction defects in hot, humid climates. Such climates are defined

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by ASHRAE as regions that maintain either a 19.5°C (67°F) or higher wet-bulb temperature for 3,000 or more hours during the warmest six consecutive months of the year. The article covers mechanical, envelope and material defects.

Product News

Dehumidification, ERV System From Munters

SELMA, Texas—Munters' DryCool™ ERV provides energy recovery and dehumidification in a single packaged unit. The unit supplies 100% makeup air using energy recovery from the exhaust airstream. It also provides packaged direct expansion cooling.

Refrigeration Condensing Unit From Emerson Climate Technologies

ST. LOUIS—Emerson Climate Technologies introduces the Copeland Scroll Outdoor Condensing Unit for medium- and low-temperature refrigeration applications. The unit features a variable-speed PSC fan motor and the company's Copeland PerformanceAlert diagnostics technology.

Fan Coil Unit From Greenheck

SCHOFIELD, Wis.—Greenheck introduces the Model VSH vertical stack high-rise fan-coil unit, designed to provide space heating and cooling in multistory buildings. The units feature two- or four-pipe water coils and electric heaters with optional silent contactors.

Subscription Management

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