



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

HVAC&R Organizations Call for Regional Efficiency Standards

WASHINGTON—Several U.S. HVAC&R industry organizations have signed a voluntary agreement to support new federal standards for their products. The agreement recommends regional efficiency standards to replace current national standards. The organizations want the new standards to become effective in 2013. The Air-Conditioning, Heating, and Refrigeration Institute (AHRI), the American Council for an Energy-Efficient Economy (ACEEE), the Alliance to Save Energy, the California Energy Commission (CEC), other industry organizations and several manufacturers signed the agreement.

Online Tool Assesses Carbon Footprint, Other Metrics in Buildings

SNOWMASS, Colo.—A new tool helps people understand how buildings use carbon and what they can do to reduce emissions in building projects. The Rocky Mountain Institute's "Green Footstep" online calculator uses factors such as the building's location, the local ecosystem and characteristics of the building to produce design targets to yield carbon neutrality, net zero energy for the site, and other goals.

Sustainable Buildings Not Costlier, Says New York Study

NEW YORK—Designing buildings with sustainable features in New York City is not a high-cost option, as it has typically been thought, according to a study by the Urban Green Council. The study finds that there is no significant difference in construction costs of residential towers and commercial interiors when comparing those that meet LEED standards and those that do not. The elimination of the price gap occurs because the cost of sustainable materials is declining and developers are saving money by making choices such as opting for less-expensive bamboo instead of granite for countertops.

Inventor Develops 'Fan Without Blades'

LONDON—A British inventor has developed a cooling fan designed to use 98% less power than air conditioning. The device, a "fan without blades," uses a mixed-flow impeller that, according to the inventor, creates a jet that "accelerates and amplifies" air, expelling 405 L/s (860 cfm).

ASHRAE News

ASHRAE Launches New Certification Program on Building



Energy Modeling

ASHRAE is launching a Building Energy Modeling Professional certification to ensure that professionals have the skills necessary to produce an accurate building energy use model. "ASHRAE's newest certification program strives to ensure that engineers and architects achieve the highest possible standards when it comes to sustainable design," said ASHRAE President Gordon Holness, P.E. The first exam for the new certification program will be administered on Jan. 27, 2010, at the ASHRAE Winter Conference in Orlando, Fla.

New Standard 90.1-2007 Interpretation on Air Leakage Provisions

A new official interpretation to ANSI/ASHRAE/IESNA Standard 90.1-2007, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, is available. The interpretation refers to the requirements presented in Section 5.4.3.2, regarding exceptions to the mandatory provisions for air leakage for fenestration and doors.

Feature of the Week

Secondary Loop Chilled Water in Super High-Rise

By Zhenjun Ma; Shengwei Wang, Ph.D., C.Eng., Member ASHRAE; and **Waikeung Pau, C.Eng.,** Member ASHRAE

This article presents the alternative design configurations for the secondary chilled water system in a super high-rise commercial building constructed in Hong Kong. The original design configuration is evaluated and compared with an alternative design configuration concerning energy performance. Both configurations are implemented in this building to test and evaluate their operational performance.

Product News

Air-Cooled Chillers From Carrier

FARMINGTON, Conn.—AQUASNAP 30RA air-cooled chillers from Carrier feature an all-in-one package design with or without an integrated pumping package. Features include scroll compression, the company's AeroAcoustic™ fan system with quiet operation, microchannel condenser coil technology, and an optional integrated hydronic pump package.

Thermal Imagers From FLIR Systems

WALTHAM, Mass.—FLIR Systems announces the T300 thermal imagers that capture still images and streaming video with a 320 x 240 pixel detector that reproduces 76,800 temperature data points in each image. Other features include built-in ΔT calculations, a missing insulation alarm and the ability to create radiometric JPEG images.

Boiler Cascade System From Triangle Tube

BLACKWOOD, N.J.—Triangle Tube introduces the Prestige cascade system. The system works with two to five boilers in primary/secondary and reverse-return piping arrangements. The system is designed to reduce off-cycle losses and dissipated heat from stored water compared to a large capacity, single-input boiler.

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