



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

ASHRAE Headquarters Achieves LEED Platinum

ATLANTA—The ASHRAE headquarters building here has achieved LEED Platinum Certification in the New Construction 2.2 category. The building, built in 1965, underwent a complete renovation in 2008. "While our first objective was to provide a healthy, comfortable and productive environment for our staff, we also wanted to set an example of what can be done to renovate existing buildings," said ASHRAE President Gordon Holness. "Given that 75% to 80% of all existing buildings will still be around in 2030, our greatest opportunity for a sustainable future is through the upgrade and retrofit of these buildings. It is extremely gratifying to achieve the USGBC's highest rating and confirm ASHRAE's leadership and commitment to supporting a sustainable built environment."

States Ranked on Energy-Efficiency Efforts

WASHINGTON—The current economic downturn has not significantly curtailed state-level efforts to promote energy efficiency, according to the American Council for an Energy-Efficient Economy (ACEEE). California is doing the most to promote energy efficiency, according to the *2009 State Energy Efficiency Scorecard*, which ranks state energy efficiency policies, programs, and practices in six categories.

Cost of Solar Systems Declining

BERKELEY, Calif.—The average cost of solar photovoltaic systems in the U.S. declined by more than 30% from 1998 to 2008, according to a recent report by the U.S. Department of Energy's Lawrence Berkeley National Laboratory. Within the last year of this period, costs decreased by more than 4%. According to the report, the most recent decline in costs is primarily the result of a decrease in PV module costs. Cost reductions from 1998 through 2007 were largely due to a decline in nonmodule costs, such as the cost of labor, marketing, overhead, inverters, and the balance of systems.

BASF Fined Over Use of Ozone-Damaging Refrigerants

FLORHAM PARK, N.J.—Chemical manufacturer BASF has agreed to spend more than \$250,000 to repair and retire refrigeration units, and \$384,000 in civil penalties over alleged misuse of ozone-depleting refrigerants. The violations of the U.S. Clean Air Act were filed by the U.S. Department of Justice and the U.S. Environmental Protection Agency. A BASF spokesman said the violations involved refrigeration unit repair, testing, record keeping and reporting at manufacturing facilities in several U.S. locations between 2001 and 2004.

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German Team Wins Solar Decathlon

WASHINGTON—Team Germany took top honors in the 2009 Solar Decathlon, the University of Illinois at Champaign-Urbana finished in second place, and Team California finished third. Twenty teams of college and university students from the U.S. and abroad participated in 10 competitions related to the design and energy performance of solar-powered homes built by the teams. Team Germany's winning "Cube House" produced a surplus of power despite three days of rain during the two-week contest. ASHRAE is a supporting sponsor of the event.

ASHRAE News

ASHRAE Building Label Program Nearing Launch

ASHRAE's building labeling program, Building Energy Quotient™ (Building EQ), is set for widespread launch later this year, according to ASHRAE president Gordon Holness. The Building EQ program is designed to identify some of the discrepancies between the estimated energy use of a building design and the actual performance of the building once in operation, Holness writes in an article introducing the program. He says that at its core, Building EQ is not a "green" program, but an information tool to help building owners achieve their energy-use goals.

ASHRAE Datacom Books Compiled Into CD

Information from ASHRAE's Datacom Series has been compiled into a searchable CD. The Datacom Series books provide guidance on ways to plan, build and monitor data centers in ways that are energy efficient and cost effective. The *Data Center Design and Operation—ASHRAE Datacom Series* CD allows users to search all previously published books in the Datacom Series simultaneously. Users also can print information directly from the CD or copy and paste into another document.

Feature of the Week

Energy-Efficient Data Centers: A Close-Coupled Row Solution

By **John Bean**, Member ASHRAE; and **Kevin Dunlap**

This article compares the pros and cons of row-based data center cooling to those of computer room air handlers (CRAH) and central air-handling units (CAHU). According to the authors, row-based cooling architecture affords a two-thirds reduction in fan power consumed by cooling equipment compared to the other options, with additional savings compounded throughout the entire downstream cooling infrastructure.

Product News

Circulator From Taco

CRANSTON, R.I.—Taco introduces the Variable Speed Delta-T 00 circulator. It combines a microprocessor-based, variable-speed differential controller with a cartridge circulator. The circulator automatically adjusts its performance to match the system's ideal Btu/h output based upon the design ΔT of the system or zone.

Heat Recovery Systems From Munters

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recovery systems from Munters are available in a range of cfm capacities. The systems feature cross-flow plate heat exchangers, as well as options such as integral or remote refrigeration; chilled water cooling; evaporative cooling; plenum fans; and gas, electric or hydronic heating.

Indoor Air Quality Monitor From E Instruments International

LANGHORNE, Pa.—The AMI300 hand-held indoor air quality monitor from E Instruments International measures CO, CO₂, temperature, airflow, humidity, pressure and other environmental parameters. The device's memory can retain up to 12,000 data points.

Subscription Management

American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) is an international membership organization founded to advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related issues.

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