



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

Weatherization Funding Emphasizes Cooling

CRAWFORDVILLE, Fla.—The U.S. government will spend \$5 billion in stimulus money to weatherize homes. An unusually large share of the money will be spent on measures to cool, rather than heat, homes. As a result of a political compromise with lawmakers from southern "Sun Belt" states last decade, this year's expansion of the weatherization program will invoke a rarely used formula to devote 31% of the money to help states in hot climates save on air-conditioning. The change nearly doubles the previous cooling share of 16%.

Facility Managers Focusing More on Efficiency, Sustainability

HOUSTON—Companies are adjusting their thermostats higher or lower by an average of 1°F (0.6°C), compared to data from three years ago, in an effort to minimize energy use and cut costs, according to the International Facility Management Association (IFMA). Sixty-one percent of facility managers who responded to IFMA's *Operations and Maintenance Benchmarks* survey said their buildings contain green elements, and nearly 30% have certified buildings.

Zero-Carbon 'Active House' Built in Denmark

AARHUS, Denmark—an ultra efficient house in Denmark captures more energy than is needed to heat and power it. The so-called "Active House" differs from the highly insulated passive houses that are currently popular in Europe. The open, daylit residence uses 540 ft² (50 m²) of solar cells to generate electricity. Computer-controlled windows open and close automatically to regulate indoor temperature. Designers estimate that in around 30 years, the excess electricity flowing from the house into Denmark's grid will have cancelled out the energy costs of building it.

Market for 'Green' Building Materials To Reach \$571 Billion in 2013

OYSTER BAY, N.Y.—The global market for "green" building materials will grow nearly 5% annually to reach \$571 billion by 2013, according to a new report by emerging technology research company NextGen Research. Commercial office buildings will be the largest nonresidential target sector for green building products over the forecast period, surpassing government buildings, according to the study.

Finalists Chosen in Dallas 'Sustainable Block' Competition

DALLAS—Groundbreaking has been set for Fall 2010 for a centrally located sustainable city block in Dallas. The city and a private urban renewal organization launched a worldwide competition to design the greenest city block in the country. Three finalists have been announced; one design will be chosen by the city. Sustainable features in the

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U.S. Department of Energy News

DOE Funding R&D on Data Center, Telecommunications Efficiency

The U.S. Department of Energy Industrial Technologies Program is offering funding to encourage research, development, and demonstration (RD&D) of energy efficient information and communications technology (ICT) systems throughout the United States. Approximately \$50 million will be awarded to projects to develop new technologies to dramatically improve energy efficiency in data center, telecommunications and other information and communication technology (ICT) areas.

ASHRAE News

Sustainability Guidance Added to Handbook

The *2009 ASHRAE Handbook—Fundamentals*, includes a new chapter on sustainability that describes the principles, design considerations, and detailed evaluations needed to design sustainable HVAC&R systems. "HVAC&R engineering design on projects concerned with performance and sustainability requires understanding of more than just HVAC&R," said Dave Grumman, who oversaw writing of the chapter on behalf of ASHRAE's technical committee on building environmental impacts and sustainability. "Engineers must consider projected energy and water demands, storm water runoff generation, waste generation and air quality impacts. The guidance in this new chapter will assist engineers as they strive for overall sustainability in buildings."

High-Performance Buildings Group Encourages 'Virtual Congressional Visits'

The High-Performance Building Congressional Caucus Coalition (HPBCCC) is hosting what it calls Virtual Congressional Visits Days during the week of June 15–19. Members of the HPBCCC participating organizations are asked to contact their member of Congress by phone and e-mail and encourage them to join the High-Performance Building Congressional Caucus and to focus on high-performance building issues. "ASHRAE's Washington Office is leading the program and would like to have ASHRAE members participate in full force," said ASHRAE president Bill Harrison.

Feature of the Week

Dedicated Outdoor Air System for Commercial Kitchen Ventilation

By **Stephen L. Brown**, Member ASHRAE

This article presents a case study as a follow-up to a 2003 ASHRAE Journal article that described the design process for a commercial kitchen ventilation (CKV) system that would be installed in a casual family dining restaurant. The restaurant owners had challenged their engineer to design a CKV system that would solve their kitchen comfort problems. The system described in this article was the engineer's response to the customer's challenge.

Product News

Vertical Pumps From Armstrong

NORTH TONAWANDA, N.Y.—Armstrong Pumps offers the vertical inline (VIL) line of pumps in a variety of sizes for applications from small chillers, boilers and cooling towers to large central plants and district cooling facilities. The machines feature heavy



cylindrical brackets with 360° register on each flange to provide a rigid union of pump and motor, as well as dynamically balanced impellers for vibration-free operation

Condenser Fan From Continental Fan

BUFFALO, N.Y.—Continental Fan offers the redesigned AFK Flange Fan in a variety of diameters and airflow capacities. The condenser fan features an adjustable-pitch impeller for precise performance matching and a reversible double-flange design that increases fan body strength and allows for duct mounting.

Occupant Temperature Screening Devices From Palmer Wahl

ASHEVILLE, N.C.—Palmer Wahl Instrumentation Group announces the Fever Alert™ line of products designed for rapid screening of individuals in public places for elevated body temperatures. Products in the line include a hand held infrared thermometer, a thermal imaging camera and a high-resolution thermal imaging system. The products are designed for companies, health departments, government agencies, and public venues to guard against the spread of maladies such as avian and swine flu.

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