



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

U.S. EPA Takes Action to Regulate GHGs

WASHINGTON—The U.S. Environmental Protection Agency (EPA) is moving to regulate power plant and oil refinery greenhouse gas (GHG) emissions beginning in January 2011. The first set of actions will give the EPA authority to permit GHGs in seven states until the states revise their permitting regulations. Also, the EPA has issued final rules to ensure that there are no federal laws in place that require any state to issue a permit for GHG emissions below levels set by the agency.

Synthetic Ice an Inexpensive Alternative

FORT CHIPEWYAN, Alberta—A small community in northeastern Alberta has found a way to cheaply extend hockey season after winter for its 1,007 residents. At spring thaw, the community is accessible only by boat and is isolated from the rest of the country and the national sport. Earlier this month the town opened what the manufacturers call the first full-size synthetic hockey rink in North America. The synthetic rink cost \$559,000 to install and requires a fraction of the \$300,000 annual maintenance of the nearly \$2 million natural ice rink that was to replace an older, damaged building. The synthetic surface consists of plastic interlocking panels with polymer chemical lubricant additives.

AT&T Acquires Xanboo to Compete in Home Automation

MILWAUKEE—AT&T has acquired Xanboo, one of the original platform developers of remote home management technology. Xanboo's technology enables users to remotely monitor and manage their home's security, lighting, thermostats and other devices via the Internet, cell phones and other communications devices. The acquisition follows a flurry of activity in the smart-home industry. Motorola recently announced it would acquire 4Home, following an investment by Verizon in the company.

Manufacturers Look To Make Homes 'Smarter'

FAIRFIELD, Conn.—GE Appliances & Lighting will launch a portfolio of products that provides insight into residential energy use. The interconnected products, such as smart meters and energy management software, allow consumers to manage and control their energy use and costs more efficiently. Other manufacturers are also focusing on making appliances more intelligent inside homes. As part of the U.S. Department of Energy's Smart Grid Investment Grant Program, Whirlpool received a grant of \$19.3 million over a two-year period to help the company accelerate its delivery of smart appliances that can connect with the smart grid. The company plans to match the investment.

Proposed Offshore Wind Farm Doubles in Size to Reduce Prices

PROVIDENCE, R.I.—The developer of a proposed wind farm off the coast of Rhode Island has doubled the project's size. Deepwater Wind says greater scale would allow it to sell electricity at a lower price. The company now plans to install 200 wind turbines some 20 miles off the coast at a cost of \$5 billion. The high price of electricity generated by proposed offshore wind farms has generated public opposition, as developers have reached agreements to sell their power to utilities at more than double local prevailing rates.

ASHRAE News

Location Important in Determining 'Green'



Humidity and CO₂ Measurement for Critical Environments

Provide **RELIABLE** measurements. Help clients meet **SPECIFICATIONS**. Have **CONFIDENCE** when it **MATTERS**.



VAISALA



The location of a sustainable site affects how "green" it is, according to an article in the *Chicago Tribune*. Companies that have traditionally built in more remote areas because land is cheaper are often resistant to adding sustainable features, said Martha VanGeem, P.E., Member ASHRAE. She says that a requirement in Standard 189.1 that buildings be located in developed areas or within walking distance of at least 10 different services drew some opposition, particularly among large manufacturing companies. "We're trying to reduce a building's footprint, but what we found is that commuters are having a bigger footprint than the buildings themselves a lot of times," she said.

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 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

Occupancy Sensor From ILLUMRA

OREM, Utah—ILLUMRA announces the E3T series solar-powered wireless door/window sensor. The wireless battery-free sensor communicates using the EnOcean protocol to a variety of compatible actuator and controller products: thermostats, relays, room controllers; as well as BACnet and Ethernet gateways for integration with energy management systems. The sensor also includes onboard energy storage that can operate the device in darkness for several days.

Roof Ventilator From Continental Fan

BUFFALO, N.Y.—The UBV upblast roof ventilator from Continental Fan provides aerodynamically efficient performance with airflow capacities to 61,000 cfm (28 800 L/s) for general ventilation and fume exhaust applications. The ventilator's motor is located outside the airstream, making it suitable for hot or contaminated airstreams. Other features include a galvanized butterfly exhaust damper section and a spark-resistant cast aluminum airfoil axial impeller.

Temperature Limit Controller From Meitav-tec

RISHON-LEZION, Israel—The TLC Temperature Limit Controller from Meitav-tec can be installed on existing AC systems to enable energy savings by limiting set temperature. If ambient temperature from the return air sensor exceeds the predefined limits, the product will deactivate the compressor. The product automatically restarts the compressor according to the set values.

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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