



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

[New York Makes It Illegal for Businesses To Attract Passersby With AC](#)

NEW YORK—New York has enacted a law that makes it illegal for businesses to purposely leave entrance doors open to let cool air out. The practice is commonly used by businesses to entice passersby to come inside on hot days. The Long Island Power Authority has estimated the practice wastes 20%–25% of stores' air conditioning. The Natural Resources Defense Council (NRDC) has found that a business with a typical 6 ft x 7 ft (1.8 m x 2.1 m) doorway wastes up to \$1,000 and about 1 ton (0.9 Mg) of CO₂ over the course of a summer if it leaves its door open with the AC on.

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[Google Planning Offshore Data Barges](#)

MOUNTAIN VIEW, Calif.—Web search company Google reportedly has filed for a patent for a "floating data center" that uses wave motion to power onboard computers and the ocean's water to cool them. A patent application filed by the company last year was discovered by media outlets late last week. The patent documents describe a self-powered 40 MW data center placed 3–7 miles (4.8–11.3 km) offshore. The system features a cooling system based on wave-powered pumps and seawater-to-freshwater heat exchangers.

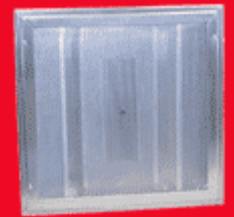
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[2009 AHR Expo Will Focus on 'Green'](#)

WESTPORT, Conn.—The 2009 AHR Expo in Chicago will place a special emphasis on environment-friendly and energy-efficient products and technologies. Hundreds of sustainable products and technologies will be on display. Also, several "green" seminars and sessions will also be offered by organizations including ASHRAE, the U.S. Environmental Protection Agency (EPA), the U.S. Green Building Council (USGBC), and the Green Mechanical Council (GMC). The Expo will produce much of its promotional materials in digital format and make them available online to reduce paper use. Also, the site of the show, McCormick Place, will use recycled and environment-friendly products such as restroom paper products and food and drink containers. The show will be held Jan. 26–28.

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Inspection, Maintenance Requirements Outlined in ASHRAE/ACCA Standard

A new standard from ASHRAE and the Air Conditioning Contractors of America (ACCA) will help ensure a consistent minimal level of HVAC&R maintenance and inspection to preserve a system's ability to achieve acceptable thermal comfort, energy efficiency, and indoor air quality in commercial buildings. ANSI/ASHRAE/ACCA Standard 180-2008, *Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems*, is the first standard to address inspection and maintenance of HVAC systems.

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New Standard Sets Ventilation Design Requirements for Health Care Facilities

ANSI/ASHRAE/ASHE Standard 170-2008, *Ventilation of Health Care Facilities*, defines ventilation system design requirements that provide environmental control for comfort, as well as infection and odor control. The standard is the first ANSI standard in the United States to specifically address ventilation in health care facilities. It is available for adoption by various authorities for health care facility construction such as city, state and federal governments and by private national organizations such as the Facilities Guidelines Institute and the Joint Commission on the Accreditation of Healthcare Organizations (JCAHO).

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Feature of the Week

Sustainable Design for Circus Big Top

By Martin Roy, ing, Associate Member ASHRAE

This article presents a case study of the design of the first concert hall dedicated to the circus arts in North America. For the building, which also functions as a cultural center and office, an integrated building design team was used that included architects, engineers, contractor, scenographer, and a circus specialist. The project, featuring passive solar design and biogas waste heat technology, garnered a 2006 ASHRAE Technology Award.

This article was originally published in September 2006. [Click here](#) to download the article. It will be available here through Sept. 24.

After Sept. 24, access to the article from this eNewsletter will no longer be available. It will remain available for free download by Members [here](#) and for purchase by nonmembers in the [ashrae.org bookstore](#).

Product News

Thermal Imaging Cameras From FLIR Systems

WALTHAM, Mass.—FLIR Systems introduces three models in the i-Series line of thermal imaging cameras for plant maintenance, electrical, and HVAC thermography applications. Features include a picture-in-picture display that allows users to blend an IR image with a visual image, a built-in 2.3 megapixel visual camera with an illuminating lamp, and high-resolution infrared detectors.

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[Solar Water Heating Controller and Monitor From EnerWorks](#)

DORCHESTER, ON, Canada—EnerWorks introduces the Thermal Energy Controller and Thermal Energy Monitor products for solar water heating applications. The controller is mounted on a solar hot water storage tank and directs and monitors the appliance, ensuring optimized performance. It also controls the pump within the appliance, enabling the future inclusion of secondary applications such as pool or space heating. The Monitor communicates directly with the Controller, enabling users to view system performance from anywhere in the building.

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[HVAC Drives Bypass From ABB](#)

NORTH TONAWANDA, N.Y.—ABB introduces E-Clipse bypass units for the ACH550 line of drives. The bypass communicates to points in the network via protocols including BACnet®, FLN, ModBus, and N2. Serial communications directly to the bypass allow the bypass to respond quickly in case of node failure in the network. Other features include intelligent bypass and keypad diagnostics that send plain-English error messages for VFD, bypass, and external issues.

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