



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

Manufacturers, Advocates Agree on Appliance Energy Recommendations

WASHINGTON—Home appliance manufacturers and energy efficiency advocates have agreed on recommendations for improved efficiency standards and tax policies for some residential appliances, including air conditioners. The provisions of the agreement could save enough energy to meet the energy needs of 40% of American homes for one year, says the Association of Home Appliance Manufacturers (AHAM) and the American Council for an Energy-Efficient Economy (ACEEE). The groups and other advocates will pursue adoption of the recommendations through administrative action by the U.S. Department of Energy and through legislative action by Congress.

Company Plans Data Centers on Ships

SAN FRANCISCO—A start-up company plans to build a fleet of data centers on cargo ships docked at ports in the San Francisco Bay. International Data Security plans to develop the below-deck areas as data center space and use the water temperature to support its cooling system, which it cites as a key factor in its claims that it can build its ship-based data centers for less than similar land-based facilities. The company claims that potential problems from motion and saltwater can be mitigated.

Smooth Skin Joining a Smooth Ride in Cars?

WASHINGTON—Automaker Nissan has come up with an idea to use an air filter to smooth and moisturize occupants' skin. The idea to use an air filter infused with Vitamin C is still in the conceptual stage. Potential names for the technology being considered include "rehydrated zeolites."

Plug-In Solar Panels Coming to Market

SEATTLE—In 2011, an inexpensive solar panel system that plugs directly into a wall outlet to supply power could be sold to U.S. consumers. Start-up company Clarian Power says its system could cost as little as \$600. The company says the system has built-in circuit protection and doesn't require a dedicated electrical panel. The system's power module will support up to 1 kW.

China, U.S. Pace the World in Renewable Energy Investments

NEW YORK—Around \$33.9 billion was invested in clean energy technologies, companies, and projects during the second quarter of 2010, according to Bloomberg. Its New Energy Finance report found that a "continuing boom" in renewable energy investment in China exists, as well as some growth in the industry in the United States. However, there has been a drop in European renewable energy investment this year. The report said total worldwide investment in renewable energy this year could reach as much as \$200 billion.

ASHRAE News

ASHRAE, NEMA to Develop Standard to Create Smart Grid Model

ASHRAE and the National Electrical Manufacturers Association (NEMA) are jointly developing a standard that would provide a common basis for energy consumers to manage and communicate data on electrical energy consumption and forecasts. ASHRAE/NEMA Standard 201P, *Facility Smart Grid Information Model*, is intended to define an object-oriented information model to enable appliances and control systems to manage electrical loads and generation sources and communicate with a "smart" electrical grid and utilities. A meeting to begin work on the proposed standard will be held Aug. 30–31 at ASHRAE headquarters in Atlanta.



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Feature of the Week

Air Motion Control in the Hospital Operating Room

By **Gerald Cook**, Member ASHRAE; and **Dan Int-Hout**, Fellow ASHRAE

A source of contamination bypasses HEPA installations with every surgical procedure performed in the operating rooms. That source of contamination is the surgical staff themselves, and the previously settled particles stirred up by their movement. This article provides guidance on controlling vertical laminar flow, covering measures such as laminar diffusers and air curtain systems.

Product News

BACnet® Controllers From Distech Controls

BROSSARD, Quebec—The ECB Series of BACnet controllers from Distech Controls uses the company's EC-NetAX Web-based network management tool and graphical user interface for easy connection and communication via BACnet and other standard protocols. The controller hardware is designed to simplify installation and wiring and uses the company's Open-to-Wireless technology for use without batteries.

Solar AC System From Solar Panels Plus

CHESAPEAKE, Va.—Solar Panels Plus offers the SplitCool DC18 solar dc-powered air-conditioning system for applications where cooling or heating is required and grid power is unavailable, unreliable or requires generators. The system installs without ducts, which reduces installation and materials costs and minimizes cooling and heating losses that occur in the ductwork of forced air systems.

Energy Monitoring Software From Schneider Electric

NASHVILLE, Tenn.—Schneider Electric announces the PowerLogic Data Center Module for ION Enterprise software. The system collects and stores data from key distribution points across an electrical network. The Data Center Module adds UPS-related energy data from multiple device types to data gathered from traditional metering equipment. The data can be shared with other users and with building automation systems.

Subscription Management

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American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
1791 Tullie Circle, NE, Atlanta, GA 30329-2305.

