



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

Study Finds Link Between Asthma, Obesity and AC Use

COLUMBIA, Md.—Increases in asthma and obesity in the U.S. correlate with the nation's increased use of central heating and air conditioning, according to a recent study. The study by the National Center for Healthy Housing analyzed relationships between health status and housing quality over a 30-year period. The researchers postulated that increased thermal comfort inside air-conditioned homes can encourage residents to remain indoors. Sedentary habits can lead to obesity, and spending many hours in a poorly ventilated home can increase the chances of developing asthma.

EPA Formally Declares 6 GHGs as Dangerous

WASHINGTON—The U.S. Environmental Protection Agency (EPA) has formally declared carbon dioxide and five other greenhouse gases to be pollutants that endanger public health. The ruling sets in motion a process that will lead to the regulation in the U.S. of the gases, which include HFCs. The April 17 ruling initiated a 60-day comment period before any proposals for regulations governing emissions of heat-trapping gases are published.

World Trade Center Project Won't Be Fully Occupied Until 2037, Says Study

NEW YORK—The buildings intended to replace the World Trade Center won't be fully built and occupied until 2037, according to a new study. Delays that have plagued the site could drag on, pushing back the project's completion nearly a generation, said a marketing analysis prepared for the Port Authority of New York and New Jersey. The study predicts that the site's centerpiece, the 1,776 ft (541 m) 1 World Trade Center, won't be filled with tenants until 2019. Ground will be broken on other skyscrapers in the project as late as 2026, with full occupancy of the buildings taking several years after their completion.

AC Said To Ensure Optimum Sleep

MANILLA, Phillipines—Samsung says its new air conditioner can determine a person's skin temperature and then maintains a specific room temperature range to ensure optimum sleep. The product is based on studies by the National Bukyong University in Korea, which found that the skin temperature needs to be 94°F–96°F (34.5°C–35.5°C) for the body to feel relaxed. A microchip in the Vivaldi split-system air conditioner monitors skin temperature and adjusts the cooling rate to ensure relaxation through three stages of sleep: falling asleep, sound asleep and waking up.

'Horizontal Skyscraper' Being Built in China

SHANGHAI, China—A 650,000 ft² (60 000 m²) "horizontal skyscraper" is being built in Shenzhen, China. If its longest end were stood vertically, it would be as tall as the Empire

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State Building. However, lying horizontally it is only 115 ft (35 m) tall. Due to be finished in 2010, the building will be the new headquarters for real estate developer China Vanke. It will also house private residences and a hotel. The Vanke wing is intended to qualify as the first LEED® platinum building in China.

ASHRAE News

ASHRAE Launches Career Web Site for HVAC&R Professionals

URBANDALE, Iowa—ASHRAE is developing an online Career Center for HVAC&R engineering professionals. The ASHRAE Career Center is intended to provide a location for professionals to research career opportunities, including employer profiles and specific job postings. Professionals will also be able to post their resumes into a database. ASHRAEjobs.com is scheduled to launch June 15. Employers and job seekers may visit the site now to register for e-mail updates.

Feature of the Week

Modulate Coil Heat Transfer

By Robert Koenig, Life Member ASHRAE

According to the author, modulating coil heat transfer is the basis of accurate and stable space temperature control. Precise modulation requires sizing control valves at the pump head. This article explains how to avoid design pitfalls, eliminate manual system balancing and provide satisfactory temperature control through pipe and valve sizing.

Product News

VAV Control System From Trane

PISCATAWAY, N.J.—Trane introduces the Tracer™ SC System Controller, featuring an intelligent field panel that communicates with LON™ or BACnet® unit controllers for rooftop VAV systems. The Tracer SC scans all unit controllers to update information and coordinate building control, including building subsystems. It features fan pressure optimization, which controls pressure in the ductwork based on demand and ventilation reset to condition only the required amount of outdoor air.

Ice Machine Germicidal System From Triatomic Environmental

JUPITER, Fla.—Triatomic Environmental offers the Fresh-Aire™ ICE UV™ germicidal UV light system, designed for installation in ice-making machines. It helps control the growth of mold, slime and biocontamination on interior surfaces and components. It features a shatter-resistant Teflon®-coated, water-resistant UV-C lamp

Ground-Air Heat Exchange System From REHAU

LEESBURG, Va.—REHAU announces the REHAU ECOAIR™ ground-air heat exchange system, designed for tight building envelopes. In addition to directly reducing the energy required to heat or cool incoming fresh air, the system lowers relative humidity during periods of cooling, and hinders condensation from freezing in heat recovery ventilators (HRV) by raising the outside air temperature before it enters the HRV.

Subscription Management

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