



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

Anniversary of Refrigeration Milestone

SAN FRANCISCO—This week in 1850, physician John Gorrie used his mechanical ice maker to chill wine at a party in Florida. The event is believed to be America's first public demonstration of ice made by refrigeration. Gorrie explained his concept by writing "If the air were highly compressed, it would heat up by the energy of compression. If this compressed air were run through metal pipes cooled with water, and if this air cooled to the water temperature was expanded down to atmospheric pressure again, very low temperatures could be obtained."

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Consumers Curbing AC Use

SAN ANTONIO—Nearly two-thirds of U.S. families are cutting back on air conditioning use, according to a recent Associated Press/Yahoo News poll. Rising electricity costs and concern about the possibility of global warming are the reasons cited. Some say they are simply keeping their thermostats at a higher setting. Also, sales are reportedly booming for residential turbines, energy monitoring devices and other nontraditional cooling measures.

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Pharmaceutical Company Agrees To Cut Use of HCFCs

INDIANAPOLIS—Pharmaceutical manufacturer Bristol-Myers Squibb Co., has agreed to spend \$3.65 million to resolve federal Clean Air Act violations by eliminating ozone-depleting refrigerants at factories in six states and Puerto Rico. By July 2009, the New York-based company plans to retire or retrofit 17 refrigeration units that use HCFCs to resolve claims brought by the U.S. Environmental Protection Agency.

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The 10 Most Energy-Efficient U.S. States

COLLEGE STATION, Texas—States in New England make up the top four and six of the top 10 most energy-efficient U.S. states. A recent study by a Texas A&M researcher ranked states according to the percentage of office buildings that exceed the U.S. Environmental Protection Agency's ENERGY STAR® requirements. The highest-ranking state, Maine, has 41.7% of its buildings exceeding ENERGY STAR requirements.

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[MEP Professionals Earning More](#)

URBANDALE, Iowa—Average salaries in the mechanical, electrical, and plumbing (MEP) sectors are above the national average, but the economy remains a concern for both employees and employers, according to the 2008 Salary Survey by MEP Jobs, an online job board and resume bank for professionals in MEP industries. Respondents reported earning an average yearly salary of \$52,000. Mechanical engineers and HVAC project managers were among the highest-earning job titles in the MEP sector.

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[ASHRAE News](#)

[ASHRAE Raises More Than \\$2 Million for Research Promotion](#)

ASHRAE has exceeded the 2007–2008 fiscal year goal of raising \$2 million for research. A total of \$2,081,422 was raised. Nearly half of the 6,000 total donations for the year came from individual ASHRAE members, with corporate donations comprising the remainder.

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[ASHRAE Staff Returns to Headquarters July 25](#)

ASHRAE will be moving into its newly renovated headquarters on July 25. ASHRAE offices in Atlanta will be closed that day, but will reopen for business Monday, July 28. During the move, certain online services will be temporarily unavailable including, but not limited to, the ASHRAE bookstore and member login. ASHRAE's phone numbers and mailing address will remain the same after the move.

To learn more about the renovation of ASHRAE headquarters, [click here](#).

[Feature of the Week](#)

[Measuring OA Intake Rates](#)

By William J. Fisk, Fellow ASHRAE; **David Faulkner, P.E.**; and **Douglas P. Sullivan**

According to the authors, OA ventilation rates should be monitored and well controlled. They cite prior research that indicates these rates substantially affect building energy use and occupant health. This article evaluates three measurement technologies.

This article was originally published in June 2006. [Click here](#) to download the article. It will be available here through July 30.

After July 30, 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](#)

[Zone Controller From Bell & Gossett](#)

MORTON GROVE, Ill.—Bell & Gossett introduces the Technologic® 5500 ZoneSav™ Controller, designed to optimize zone/bridge flow and distribution loop Delta T. It enables users to "decouple" zones thermally and hydraulically from chilled- and hot-water distribution systems. The controller can be used in either two- or three-way control valve applications.

[Read more](#)

[Modulating Gas Furnaces From Johnson Controls](#)

NORMAN, Okla.—The Unitary Products division of Johnson Controls announces a line of variable speed, modulating gas furnaces with electronically commutated motors (ECM) that achieve up to 98% Annual Fuel Utilization Efficiency (AFUE). The units feature multiple venting options and a multiposition design for application flexibility. The units also feature a condensate management system that eliminates the need for external traps.

[Read more](#)

[Software From Autodesk](#)

SAN RAFAEL, Calif.—Autodesk announces the launch of two software tools for mechanical, electrical, and plumbing (MEP) professionals. The MEP Analysis Extension is a set of 25 utilities that engineers can use to better understand how a building system will perform before it is built. The utilities include various analysis, sizing, and calculation tools. The HVAC Load Calculation Extension is a comprehensive HVAC load calculation software tool that determines building peak cooling and heating loads.

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[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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