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compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD. January 2022 issue. Vol. 99, No. 1

Industrial Equipment News
Engineering Handbook

This report summarizes the investigation of two active desiccant module (ADM) pilot site installations initiated in 2001. Both pilot installations were retrofits at existing facilities served by conventional heating, ventilating, and air-conditioning

(HVAC) systems that had encountered frequent humidity control, indoor air quality (IAQ), and other operational problems. Each installation involved combining a SEMCO, Inc., ADM (as described in Fischer and Sand 2002) with a standard packaged rooftop unit built by the Trane Company. A direct digital control (DDC) system integral to the ADM performed the dual function of controlling the ADM/rooftop combination and facilitating data collection, trending, and remote performance monitoring. The first installation involved providing preconditioned outdoor air to replace air exhausted from the large kitchen hood and bathrooms of a Hooters restaurant located in Rome, Georgia. This facility had previously added an additional rooftop unit in an attempt to achieve

occupant comfort without success. The second involved conditioning the outdoor air delivered to each room of a wing of the Mountain Creek Inn at the Callaway Gardens resort. This hotel, designed in the "motor lodge" format with each room opening to the outdoors, is located in southwest Georgia. Controlling the space humidity always presented a serious challenge. Uncomfortable conditions and musty odors had caused many guests to request to move to other areas within the resort. This is the first field demonstration performed by Oak Ridge National Laboratory where significant energy savings, operating cost savings, and dramatically improved indoor environmental conditions can all be claimed as the results of a retrofit

desiccant equipment field installation. The ADM/rooftop combination installed at the restaurant resulted in a reduction of about 34% in the electricity used by the building's air-conditioning system. This represents a reduction of approximately 15% in overall electrical energy consumption and a 12.5-kW reduction in peak demand. The cost of gas used for regeneration of the desiccant wheel over this period of time is estimated to be only \$740, using a gas cost of \$0.50 per therm--the summer rate in 2001. The estimated net savings is \$5400 annually, resulting in a 1-2 year payback. It is likely that similar energy/cost savings were realized at the Callaway Gardens hotel. In this installation, however, a central plant supplied the chilled water serving fan

coil units in the hotel wing retrofitted with the ADM, so it was not metered separately. Consequently, the owner could not provide actual energy consumption data specific to the facility. The energy and operating cost savings at both sites are directly attributable to higher cooling-season thermostat settings and decreased conventional system run times. These field installations were selected as an immediate and appropriate response to correct indoor humidity and fresh air ventilation problems being experienced by building occupants and owners, so no rigorous baseline-building vs. test-building energy use/operating cost savings results can be presented. The report presents several simulated comparisons between the ADM/roof

HVAC approach and other equipment combinations, where both desiccant and conventional systems are modeled to provide comparable fresh air ventilation rates and indoor humidity levels. The results obtained from these simulations demonstrate convincingly the energy and operating cost savings obtainable with this hybrid desiccant/vapor-compression technology, verifying those actually seen at the pilot installations. The ADM approach is less expensive than conventional alternatives providing similar performance and indoor air quality and provides a very favorable payback (1 year or so) compared with oversized rooftop units that cannot be operated effectively with the necessary high outdoor air percentages.

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F & S Index United States Annual Surplus Record

“Even with the latest and best vehicles, machinery, technology and buildings, if we continue to use resources

irresponsibly — if we continue to waste food, water and energy — we are not even in the race.” This book looks at the sustainable issues and the accompanying opportunities, and leads readers on a fast track to clear the air and drive to a sustainable, low-carbon future. To focus on renewable energy and energy efficiency. To stop the burning and stop wasting resources. Read on and let the wealth of information in this book inspire you along your sustainability journey. Join the race and act soon. A portfolio of stories, essays, profiles and case studies covering the four E's of Sustainability: Energy, Economy, Environment and Ethics. Contents: Introducing the Race for Sustainability Why Sustainability Matters Making Energy Efficiency

Sexy Building Hopes Beyond Green Buildings The Sun Shines on Renewables Industrial and Innovative Solutions Gold Standard for Sustainable Events Air Pollution, Deforestation and Biodiversity Resourceful Management of Waste Energy Literacy and Creative Education Ethics, Media and Communication Readership: Professionals, researchers and students in the field of sustainability, climate change economics, corporate social responsibility, and environmental studies, and the general public interested in sustainability and the environment. Key Features: Discusses a wide variety of sustainability issues with global significance, as well as provides insights into opportunities which we need to act urgently upon Examines the

profiles of leaders and visionaries in the sustainable race Presents current and useful information on how we can each make a difference to better the environment Keywords: Sustainability; Climate Change; Clean Energy; Waste Management; Low Carbon; Energy Efficiency; Four E's of Sustainability; Ethics; Environment; Energy; Economics; Green Buildings; Renewable Energy; Innovation in Energy Management; Sustainable Events; Air Pollution; Energy Literacy Reviews: "This latest work by Hickson provides a very constructive and insightful commentary on global sustainability issues with a focus on how Singapore can play its part." Medical Tribune "The book is an interesting read, suitable for experts and those who are approaching the topic for

the first time." Energia
Handbook of Heating, Ventilation, and Air Conditioning Surplus Record Winner of Choice Magazine - Outstanding Academic Titles for 2007. 'I predict that it will become the "bible" of the field ... In my career, it's been difficult to spot a future classic even before it was published, but this is such a classic'. Mark D. Levine, Director, Energy Division, Lawrence Berkeley National Lab, USA. 'Explains in an easily understandable but not trivial way the factors that affect energy consumption, from building design to HVAC systems and systems serving communities'. Michael Holmes, Consultant to Ove Arup, UK. 'Technology compendia such as this book will become.
ASHRAE Handbook & Product Directory

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The increasing concern with indoor air quality has led to air-quality standards with increased ventilation rates.

Although increasing the volume flow rate of outside air is advisable from the perspective of air-quality, it is detrimental to energy consumption, since the outside air has to be brought to the comfort condition before it is insufflated to the conditioned ambient. Moreover, the humidity load carried within outside air has challenging HVAC engineers to design cooling units which are able to satisfactorily handle both sensible and latent contributions to the thermal load. This constitutes a favorable scenario for the use of solid desiccants to assist the cooling units. In fact, desiccant wheels have been

increasingly applied by HVAC designers, allowing distinct processes for the air cooling and dehumidification. In fact, the ability of solid desiccants in moisture removal is effective enough to allow the use of evaporative coolers, in opposition to the traditional vapor-compression cycle, resulting in an ecologically sound system which uses only water as the refrigerant. Desiccant Assisted Cooling: Fundamentals and Applications presents different approaches to the mathematical modeling and simulation of desiccant wheels, as well as applications in thermal comfort and humidity controlled environments. Experts in the field discuss topics from enthalpy, lumped models for heat and mass transfer, and desiccant assisted radiant cooling systems, among others.

Aimed at air-conditioning engineers and thermal engineering researchers, this book can also be used by graduate level students and lecturers in the field.

The Architect's Guide to Mechanical Systems Springer Science & Business Media

The purpose of this book is to simplify the different heating and air conditioning systems and their components by providing elementary text on the relationships and operation of indoor comfort equipment. The author has taken the utmost care to present this subject in thorough yet, simple nontechnical language. Everyone regardless of his or her technical aptitude will be able to diagnose and repair some problems with their Heating and Air conditioning system. This book

offers troubleshooting procedures, maintenance tips and details, which can help to extend the life of your heating and air conditioning system. It includes all technical terms with illustrations and definitions of heating and cooling systems from oil furnaces to heat pumps Architectural Record World Scientific SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 110,000 industrial assets; including metalworking and fabricating machine tools, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS

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Surplus Record
Packaged Rooftop Air Conditioners Modeling of Rooftop Packaged Air Conditioning Equipment Desiccant-Assisted Cooling Springer Science & Business Media

Air Conditioning, Heating and Ventilating John Wiley & Sons

This manual, published by the Illinois Association of School Boards, was designed to be used as a teaching tool and reference source for overseeing effective school maintenance. Section 1 describes the basics of good school maintenance, including managing the program, using computers, controlling energy costs, ensuring safe practices,

designing buildings for efficient maintenance, and being informed about environmental issues. Section 2 details guidelines for operating cleaning and general building services, such as custodial operations, area cleaning programs, and equipment and supplies. A custodian's glossary is included. The third section provides guidelines for building maintenance, specifically, caring for the exterior and roof. Procedures for maintaining school grounds are detailed in the fourth section. The fifth section describes the maintenance of mechanical equipment, including heating and air conditioning systems, sanitary systems and fixtures, sewage treatment plants, and electrical systems. A management tools appendix contains a list of environmental

resources; sections on cleaning and general building services, grounds maintenance, and mechanical equipment; and annual inspection checklists. (LMI)

Sweet's Catalog File Illinois Assn of School Boards

Over the past 20 years, energy conservation imperatives, the use of computer based design aids, and major advances in intelligent management systems for buildings have transformed the design and operation of comfort systems for buildings. The "rules of thumb" used by designers in the 1970s are no longer viable. Today, building systems engineers must

The Journal of the Institution of Heating and Ventilating Engineers
Surplus Record

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A comprehensive index to company and industry information in business journals.

Modeling of Rooftop Packaged Air Conditioning Equipment CRC Press

Get the updated guide to active and passive control systems for buildings. To capitalize on today's rapidly evolving, specialized technologies, architects, designers, builders, and contractors work together to plan the mechanical and electrical equipment that controls the indoor environment of a building. *The Building Environment: Active and Passive Control Systems, Third Edition* helps you take advantage of design innovations and construction strategies that maximize the comfort, safety, and energy efficiency of buildings. From active HVAC systems to passive methods, lighting to on-site power generation, this updated edition explains how to strategically plan for and incorporate effective, efficient systems in today's buildings. It covers the

underlying thermal theories and thermodynamic principles and focuses on design that enhances the building environment and minimizes the impact on the world's environment. The Building Environment goes beyond the ABCs of HVAC and covers: On-site power generation, including wind turbines, solar photovoltaic cells, fuel cells, and more. Plumbing systems, fire protection, signal systems, conveying systems, and architectural acoustics. Procedures and/or formulas for performing heat loss, heat gain, and energy use calculations, determining the rate of heat flow, calculating solar energy utilization, doing load calculations, and more. Details on the latest building codes and standards references. New information on the sustainable design of building systems

and energy efficiency, including new technologies. The latest thinking and data on a building's impact on the environment, indoor air quality, and "sick building syndrome." Design economics, including the payback period, life-cycle cost, comparative value analysis, and building commissioning. A practical on-the-job tool for architects, designers, builders, engineers, contractors, and other specialists, this Third Edition is also a great reference for architecture students who will lead tomorrow's design teams. *Sweet's Engineering & Retrofit, Mechanical, Electrical, Civil/structural Catalog File* Surplus Record SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine

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Engineering Digest

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Field Demonstration of Active Desiccant Modules Designed to Integrate with Standard Unitary Rooftop Package Equipment - Final Report

* A broad range of disciplines--energy conservation and air quality issues, construction and design, and the manufacture of temperature-sensitive products and materials--is covered in this comprehensive handbook * Provide essential, up-to-date HVAC data, codes, standards, and guidelines, all conveniently located in one volume * A definitive reference source on the design, selection and operation of A/C

and refrigeration systems
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