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Hoffman  Building Technologies
A Division of Hoffman • Hoffman, Inc.

Offering Building Automation & Systems Integration since 1987

Framed Louver Access Door from EVAPCO

With the recent introduction of the AT/ATWB/ATC and ESWA product lines, EVAPCO proudly released the Framed Louver Access Door on units with louvers 5 feet or larger. Due to its popular demand, EVAPCO has now expanded this offering as a selectable accessory for all louver sizes.

Design Features:

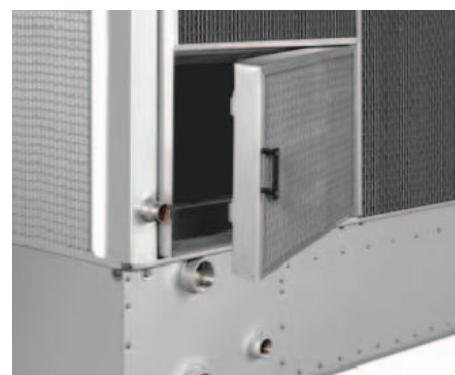
- Quick Release Mechanism – Hinged access panel with quick release handle.
- Easy Basin Access – Allows easy access to make-up assembly and strainer screen.
- Standard/Optional – Louver door is standard on units with louvers 5' tall and larger (1 per make-up) and optional on all other units with shorter louver heights.
- Not Available – On certain ATC-E and ATWB models where there is interference with the spray pump.

Design Advantages:

- Easiest valve and strainer access in the industry.
- No need to remove louvers.
- Maintenance performed from outside of the unit.

With this new introduction and the incorporation of the WST II Air Inlet Louver, EVAPCO is the most maintenance friendly cooling tower in the industry.

For more information on EVAPCO products, contact your local Hoffman & Hoffman or Hoffman Building Technologies salesperson in the Carolinas, or Robert W. Hayes Company at 804-323-7890 in Virginia. In Eastern Tennessee contact Bill Lakenan at ARC in Knoxville at (865) 584-3044.



comments & suggestions

For comments or suggestions on this newsletter, please write or call Rusty Hoffman at (336) 252-1700, rusty.hoffman@hoffman-hoffman.com or P.O. Box 77258, Greensboro, NC 27417-7258.

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Daikin McQuay Pathfinder™ Chiller

Innovative Technology, Inspired Teamwork

Reduce your operating costs

Three levels of efficiency available to match your requirements.

- Standard: meets ASHRAE Standard 90.1 for efficiency
- High: enhanced efficiency, up to 10.8 EER at full load
- Premium: highest full load efficiency in its class

Neighborhood friendly, quiet operation

- The Pathfinder™ Chiller continues the McQuay legacy of air-cooled chillers with the quietest performance published, with sound pressure levels as low as 65 dBA with no attenuation.
- Designed to be the quietest air-cooled chiller in the industry with advanced, low-speed fans with patented blade profile for the ultimate in quiet operation.
- Unique single-rotor compressor minimizes mechanical vibration.

Ideal for replacement opportunities

- Small unit footprint with the maximum

condenser heat transfer per foot of unit length.

- Smaller pad size required for installation.
- Single or multi-point power connection available.

Manage your maintenance costs

- Planned maintenance agreements available from McQuay Factory Service
- All Pathfinder™ Chillers shipped within North America are D-Net™ remote service capable. D-Net, based on Daikin customer support technology, provides McQuay with a direct electronic connection to your Pathfinder chiller, giving McQuay Factory Service the ability to provide an enhanced level of support to keep your system running efficiently and reliably.
- Easy access for in-house maintenance staff or service contractors to reach the most commonly serviced unit components.

DAIKIN McQUAY

Hoffman & Hoffman, Inc. is pleased to announce the opening of our East Tennessee offices

Hoffman & Hoffman, Inc. has opened two sales offices in the Knoxville and Chattanooga, Tennessee areas. We have been appointed the East Tennessee representative for McQuay International, a Daikin Group company. Hoffman & Hoffman was founded by Louis and Harry Hoffman in 1947 and has represented McQuay Air Conditioning since the first year we began. We are dedicated to helping customers create an economical and

enjoyable heating, filtration, ventilation and air conditioning owning experience. We also have eleven (11) other sales offices located throughout North Carolina, South Carolina, and Virginia.

Duke Bennett, P.E., from our Richmond, VA office, is the manager of the Knoxville office. Duke is a graduate of Auburn University with a B.S. in Mechanical Engineering. He has been with Hoffman & Hoffman since 1993 and has been the

Richmond Branch Manager since March of 2000.

Mike Crowder, P.E., LEED AP is the manager of the Chattanooga office. Mike graduated from Mississippi State in 1977 with a B.S. in Mechanical Engineering. He has been with Hoffman & Hoffman since 2003. Mike and his team are located in the McQuay District Service office in Chattanooga.

View our stock catalog online at www.hoffman-hoffman.com

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Access Door

LabSOX™

Air Dispersion For Critical Environments



DuctSox Solutions 101: Straight Shooting at Laser Lab in Illinois

When outfitting a third floor laboratory within Loomis Laboratory of Physics at the University of Illinois, two of the rooms were being equipped for leading edge research using lasers. Ultimately, microscopic particles are suspended in a laser beam that cools the particles until they combine and form ultra cold plasma. Because of the sensitivity of the experiments, a stable environment provides the best results.

To provide the best performance given the space and inlet conditions, a "Suspended D-Shape" LabSox product was custom made for this project. The end inlet and wide shape provided:

- A large dispersion face to disperse 3,400 cfm.
- Maintained a terminal velocity in the research area below 25 FPM.
- Kept noise levels below 25 NC.
- Sustained a temperature consistency of 1° C.

The product used was 36" Suspended D-Shape LabSox, Surround Flow Rx50 Fabric Face. When looking to improve air distribution in laboratories or other airflow critical environments, the DuctSox LabSox product family offers retrofit alternatives to use existing equipment, easing installation and budgets. Contact your Hoffman & Hoffman salesperson for more details on DuctSox products or visit www.ductsox.com. For DuctSox information in Eastern Tennessee call Greeley & Associates at (865) 584-3267.



Vision™ Indoor Air Handlers



New Extended-Size Vision™ indoor air handlers from McQuay are an economical alternative to installing multiple air handlers or a custom system for high-cfm applications. Available in capacities up to 100,000 cfm and with coil face areas up to 160 square feet, the new Extended-Size Vision indoor air handlers are ideal for projects where indoor air quality and high fresh air volume are a requirement, including healthcare facilities, schools, institutions, stores and manufacturing buildings.

These AHRI-certified units are available in dimensions up to 122 inches high and 228 inches wide. The McQuay Variable Dimensioning feature allows cabinet sizing in increments of four inches wide and two inches high up to the maximum. "With their unique, custom-modular platform, the Extended-Size Vision air-handling units give tremendous component and sizing flexibility, allowing engineers to configure the optimal air-handling system for their building's environment," said Dennis Nelsen, senior marketing engineer of McQuay International.

Retractable lifting lugs provide a balanced, even load for easy rigging during installation. A heavy-duty, patent-pending base rail, up to 12 inches high, handles heavier component loads and allows for adequate condensate trapping. Installation time is greatly reduced with McQuay's patented splice collar, which provides easy and certain section-to-section fit and seal without additional nuts, bolts, screws, gasketing or caulking. Fan selections include double-width, double-inlet (DWDI) airfoil wheels up to 49 inches in diameter; single-width, single-inlet (SWSI) airfoil plenum fans up to 66 inches in diameter; and dual SWSI airfoil plenum fans up to 49 inches in diameter. Factory-installed Digital Ready™ controls optimize air handler performance while minimizing installation costs.

McQuay International delivers engineered, flexible solutions for commercial, industrial and institutional HVAC requirements with energy-efficient and environmentally responsible products, knowledgeable applications expertise and responsive support. McQuay is a wholly owned subsidiary of Daikin Industries Ltd., a Fortune 1000 company and the second largest air conditioning, heating, ventilating and refrigeration company in the world. For more information on McQuay products in the NC, SC, Chesapeake, VA, Roanoke, VA and Eastern Tennessee areas contact your Hoffman & Hoffman salesperson. In the Richmond, VA area contact A.C.E.S. at 804-264-2911.



Daikin Training in Greensboro, NC

Daikin AC conducts various training courses at the Hoffman & Hoffman training center in Greensboro, NC. Go to www.daikinac.com/commercial/ to register for a training course or contact your Hoffman & Hoffman salesperson.

Upcoming Courses include:

October 26-27, 2009	Sales and Engineer Training (this is a 2-day course)
November 17, 2009	RA/SkyAir Install and Commissioning
December 2, 2009	VRV Install and Commissioning
December 16, 2009	VRV Install and Commissioning

AMCA and Greenheck: For Vektor Laboratory Exhaust

About AMCA

The Air Movement and Control Association International, Inc. (AMCA) is a not-for-profit international association of the world's manufacturers of related air system equipment — primarily, but not limited to: fans, louvers, dampers, air curtains, airflow measurement stations, acoustic attenuators, and other air system components for the industrial, commercial and residential markets.



AMCA International, backed by almost 80 years of standards development, is the world's leading authority in the development of the science and art of engineering as relates to air movement and air control devices. AMCA International publishes and distributes standards, references, and application manuals for specifiers, engineers, and others with an interest in air systems to use in the selection, evaluation, and troubleshooting of air system components.

AMCA International, with member companies and laboratories in many industrialized countries around the world, is active on the technical committees of the International Standards Organization (ISO), and participates in the development of international standards for the industry.

AMCA 260 Standard

In 2005, at the request of industry consultants and laboratory end users, AMCA initiated an AMCA standard and certification committee to quantify the air entrained and total air discharged from high plume dilution, induced flow fan blowers.

Both the Greenheck Vektor-MD and Vektor-CD fans have AMCA certified performance and are licensed to bear the AMCA label.



VariPrime - Variable Primary Pumping Systems

VariPrime™ was developed in 1992 to solve specific "low delta T" problems in larger central chilled water plants. In 1995, Systecon made VariPrime™ the standard design practice in small and large facilities, providing a low-cost, high-flexibility, low-complication alternative to traditional primary/secondary pumping systems. With hundreds of installations across the world, Systecon is the only company with extensive experience varying the flow across every size, type and chiller manufacturer available. VariPrime™ saves money and space by using controls instead of extra pumps and mechanical devices while controlling high speed electronics to simplify and improve mechanics. Systecon guarantees a reduction in energy by eliminating inefficient constant-speed primary pumps. VariPrime™ fully optimizes chillers by matching chiller flow to system "delta T".

Why VariPrime™ from Systecon?

- Guaranteed performance and energy reduction due to the elimination of less-efficient constant-speed primary pumps
- Unit-mounted and verified controls
- Factory designed, assembled and tested, providing you with access to the experience of Systecon's hundreds of installations world-wide

Summary of AMCA Standards and Certification Programs

- AMCA 210 - Fan Performance Test Standard
- AMCA 211 - Certified Fan Performance Ratings Program
- AMCA 260 - Induced Flow Test Standard & Certified Fan Performance Ratings Program
- AMCA 300 - Sound Testing Standard
- AMCA 311 - Certified Sound Ratings Program



AMCA Specification and Clarification

How your specifications are written is critical to ensure you receive AMCA certified equipment on your projects.

X Incorrect: "Laboratory exhaust fan systems shall be tested in accordance with AMCA Standard 210 or 260."



This statement basically states that fans shall be tested in accordance with an AMCA standard, but does not state that the performance be certified and the fans are AMCA Licensed.

✓ Correct: "Laboratory exhaust fan systems shall be tested in accordance with AMCA Standard 210 or 260, and are licensed to bear the AMCA Certified Ratings Seal."

This statement states that fans shall be tested in accordance with an AMCA standard, performance be AMCA certified and bear the AMCA Ratings Seal.

For more information on Greenheck products, visit www.greenheck.com or contact your local Hoffman & Hoffman salesperson. In Eastern Tennessee contact Air Alliance for Greenheck information and products at (865) 588-5577.



- Quick delivery
- Lower cost than field-built systems
- Higher quality than other systems

Who is Systecon?

For more than 30 years, Systecon has taken an innovative approach to analyzing water systems and developing integrated mechanical components, piping, and control systems to fit customer needs. They pride themselves on developing new technologies in water management that save customers time, facility space, and installation cost. They attribute their success to their extensive hydraulic and electronic expertise developed from thousands of installations across the globe.

For more details on Systecon, contact your local Hoffman & Hoffman salesperson in South Carolina, Roanoke and Richmond, VA, or Knoxville and Chattanooga, TN areas.

