

FRESH FACTS



www.driamerica.com

02/11

IAQ News from 

AMERICA – Upgraded Website Launched

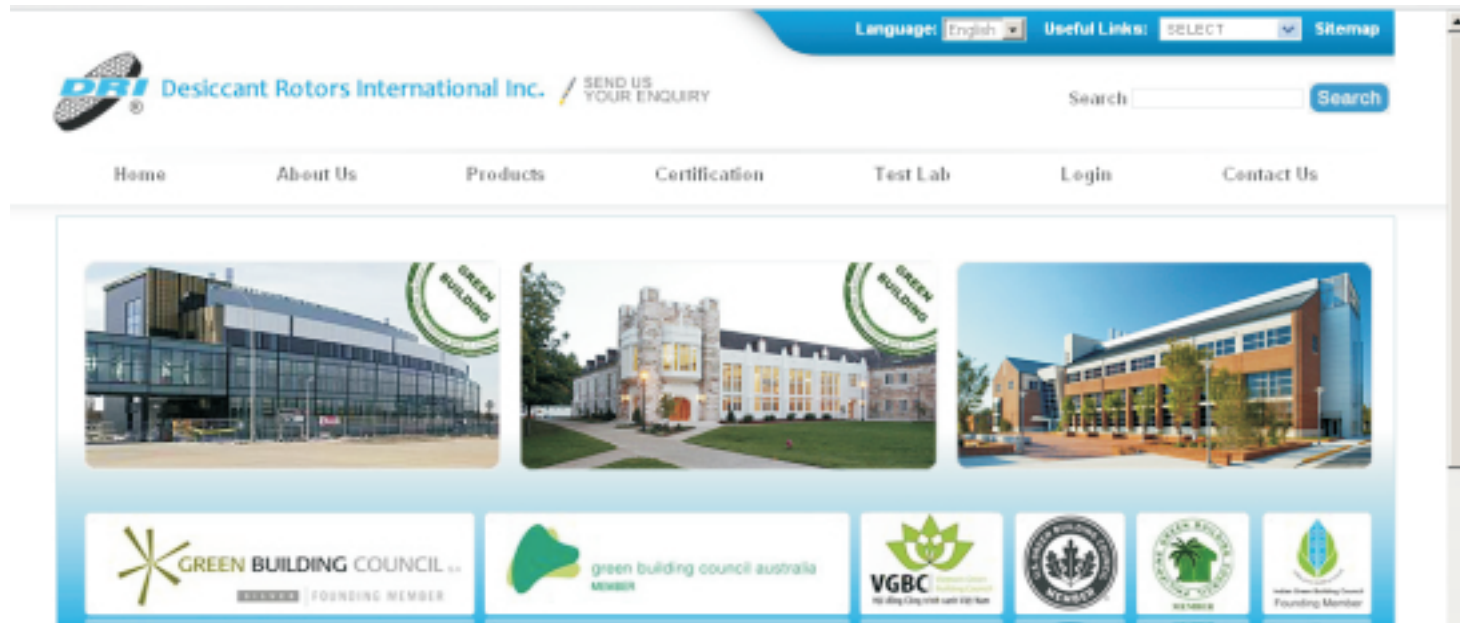
DRI America's renovated website – www.driamerica.com – has been launched!

The website is a step forward in DRI's commitment to provide the most timely

information to its business partners in North America.

The new website will help disseminate business opportunities even faster. Interested professionals can download

specific company & product information directly from the website. The web will offer not just ease of access but will also provide an edge for faster communication with any of the DRI's Sales Offices.



exhibits at AHR EXPO 2011 & gets ready for AHR 2012

Thank you for visiting DRI at AHR EXPO, January 31-February 2, 2011, Las Vegas, Nevada.

DRI had showcased EcoFresh Energy Recovery Wheels, EcoDry Desiccant Dehumidification wheels and Passive Desiccant Dehumidification Wheels at their booth.

As the largest and most comprehensive HVAC/R exposition, the AHR Expo attracts tens of thousands of attendees from all facets of the industry, including contractors, engineers, dealers, distributors,



Glimpse of DRI Booth at AHR EXPO 2011

wholesalers, OEMs, architects, builders, industrial plant operators, facility owners and managers, agents and reps.

It's a hands-on, interactive event that showcases a wide spectrum of equipment, systems, and components. This unique industry forum creates a dynamic marketing environment unequaled in size and scope by any other industry event.

Indeed time flies very fast! AHR 2011 finished on February 2 and now we are looking forward to our participation in AHR 2012 Show which will be held in Chicago on 23-25 January 2012. We invite you to visit us at our booth #2529.

supplied **ECO FRESH**® Energy Recovery Wheels for Edmonton Remand Centre

Built in 1979, the original Edmonton Remand Centre was a 734-bed facility accommodating adult male and female inmates. The newer, larger facility will be able to hold up to 2,000 inmates on a site that is roughly the size of 20 CFL football fields. The fast-track project began in 2007 and is scheduled to open in October 2012.

A new look

The new Remand Centre will look like a modern low-rise office building. Enclosed exercise yards and exterior lighting that is directed toward the facility will minimize the impact on the neighborhood.

The project is aiming for **LEED Silver certification**, as well as contributing to the surrounding area in terms of its environmental impact.

Fresh Air HVAC System in the new facility

DRI has supplied its EcoFresh Energy

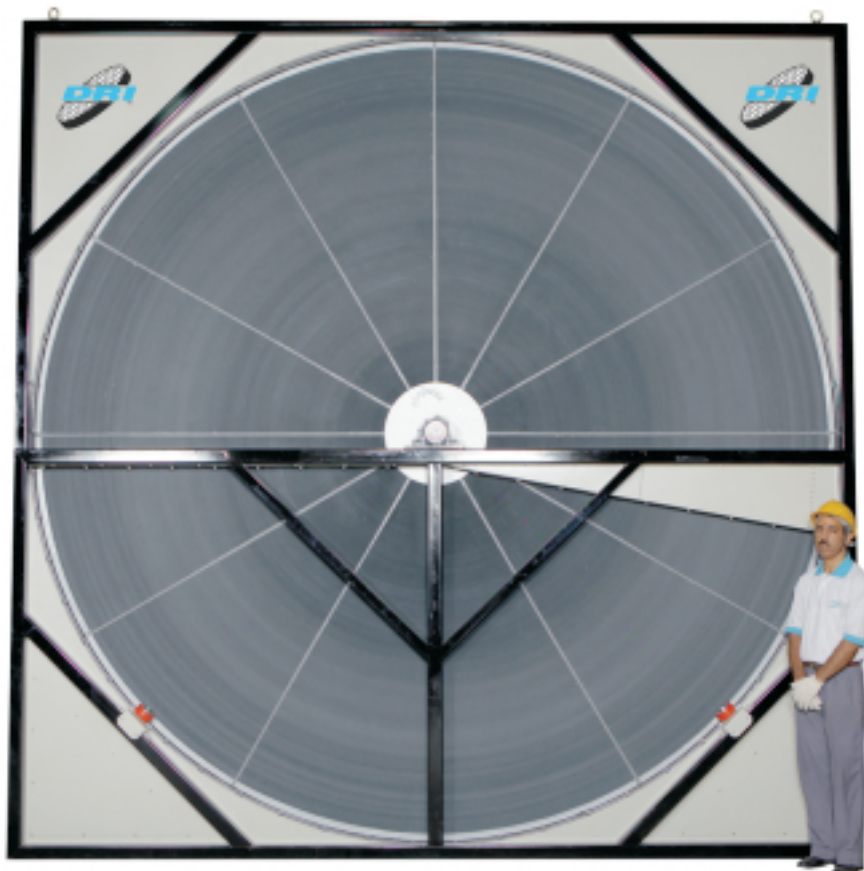


Recovery Wheels to the building to optimize energy performance of the air conditioning systems which would result into:

- considerable reduction in installed

tonnage

- reduction in utility bills for entire life cycle
- enhanced Indoor Air Quality (IAQ)
- and reduced health risks



DRI is the largest producer of Enthalpy wheels. DRI Ecofresh Energy Wheel is desiccant Molecular Sieve 3Å coated on aluminium substrate. This limits the cross contamination to absolute minimum and ensures exclusion of the contaminants in the air streams, while transferring water vapour molecules.

Project Details:

Project Name: Edmonton Remand Centre

Project Architect: ONPA Architects

AHU Manufacturer: Silent Aire

Construction Managers: Stuart Olson
Dominion (SOD) Construction

DRI Product Installed: Energy Recovery
Wheels

No. of EcoFresh Units: 29

Total Fresh air (in CFM): 322000

Years of Installation: 2009 & 2010

Parx Casino maintains good IAQ with EcoFresh Energy Recovery Wheels

Pennsylvania's top moneymaking casino trusted DRI EcoFresh Energy Recovery Wheels to provide best in-vironment to their guests.

Parx Racing and Casino is a thoroughbred horse racetrack and racino housing three restaurants, a sports bar and a lounge and entertainment area, and not the least, a 120,000-square foot gaming floor with 3,300 slot machines and 176 electronic table games.

Parx's sleek design, state-of-the-art technology, world class interiors and

the best HVAC Systems provide an intangible and very unique experience to its guests.

They have installed six units of DRI EcoFresh Molecular Sieve Coated Energy Recovery Wheels.

How Does the EcoFresh Wheel Work?

In a typical installation, the wheel is positioned in an Air Handling Unit so that it is divided into two half moon sections.

Stale exhaust air is drawn through one half and outdoor air through the other in a



counter flow pattern. At the same time, the wheel is rotated. Sensible heat is transferred as the metallic substrate picks up and stores heat from the warmer air stream and gives it up to the cooler one.

Latent heat is transferred as the desiccant coating on the metallic substrate adsorbs moisture from the air stream that has the higher humidity ratio and releases the moisture into the air stream that has the lower humidity ratio.

EcoFresh Heat Wheels use desiccant

Molecular Sieve 3Å (EcoSorb 300) coated/used on aluminum substrate. This limits the cross contamination to absolute minimum and ensures exclusion of contaminants in the air streams, while transferring water vapor molecules.

Project Details:

Project Name: Parx Casino

DRI Product Installed: Energy Recovery Wheels

No. of EcoFresh Units: 06

AHU Manufacturer: Ventrol

New York City Joan and Joel Smilow Research Center Breathes Easy and Saves Energy - Thanks To DRI's Enthalpy Wheels

Joan and Joel Smilow Research Center comprises of state-of-the-art, modern, interdisciplinary research unit right in the center of the medical school environment. The Institute has taken special care to ensure well being of building occupants by providing them a reliable environment while saving highly on energy costs of the building.

According to Federico La-Femina, the

director of facilities for Research Center, "There has been no odor complaints from building occupants and the energy saved by the enthalpy wheels has been tremendous. Both DRI wheels are delivering over 70,000 CFM of outside air to the space."

The 12' diameter DRI wheels have been in operation since 2006. After five years

of operation, the wheel media looks as good as it did on the day it arrived. Coincidentally, one of DRI's largest competitor's, had two rotors the same size in the same application on a wing opposite the DRI Rotors and they have already been removed. According to Federico LaFemina, "Their rotor media had to be removed as it delaminated and

became clogged preventing outdoor air from entering the building. Before the media was removed, you could take a MagLite flashlight and push it straight through the media, like a hot knife through butter.”

If you are designing a new animal lab or chemistry lab with fume hood exhaust, it is worth considering to use a DRI Rotor to save the most first costs and operating costs all while providing acceptable indoor air quality just like the NY City Joan and Joel Smilow Research Center.

Formal name of project: Joan and Joel Smilow Research Center

Location: New York, New York

Gross square footage: 235,000 sq.ft.

Total construction cost: \$140,000,000

Owner: New York University School of Medicine

Architect: Mitchell | Giurgola Architects, LLP

AHU Manufacturer: Climate Craft



**Green Buildings...
worldwide with
DRI Green Products**



**University of the
South's Sewanee's, USA**



Gateway, S.Africa



Patni Computers, India



Pacific Controls, UAE



SCG Experience, Thailand

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