

FRESH FACTS

IAQ News from 

5

Other
PANWATM
Group Companies



delairTM

Awards Galore for

EEPC Awards

DRI has been recognized by EEPC (Engineering Export Promotion Council) for its “**Outstanding contribution to Engineering Exports**” and awarded the “**Star Performer**” for the year 2005-2006 as well as the **Highest Exporter Award in Thrust Markets for 2004-2005** in Northern Region.



PHD Brand Equity Award

PHDCCI awarded DRI for creating a highly successful Indian Brand ‘**EcoFresh**’ in the international market.

DRI exports over 70% percent of its produced equipment to almost all countries in the world including Germany, Japan and North America.



A Building that Breathes

Olympia Technology Park, Chennai

This gold rating represents the outcome of a challenging environment-friendly positioning undertaken by the promoters of Olympia Technology Park when the project was conceived.



The world's largest LEED gold-certified green building

OLYMPIA
TECHNOLOGY PARK

with



Fresh Air Facts

- Internal Room comfort planned for 73°F ± 2 and RH not exceeding 60%.
- Multiple AHU rooms in each floor for proper zonalization.
- 100 W per terminal without any diversity for computers.
- 20 CFM fresh air per person as per ASHRAE standards.

The promoters, Chennai-based Khivraj Tech Park Pvt Ltd and Kolkata's Space Group and M.K. Group, of the Rs 400 crore project have spent an additional Rs 100 per sq. ft. on specially treated building materials and glass to gain maximum thermal efficiency and use of natural light.

The green positioning has helped address one of the biggest concerns companies face today – unhealthy interiors. "It helps the tenant recognise that he is hiring a non-compromised building where concerns like sick building syndrome and heat island have been taken care of", says M. Anand, Counsellor, LEED Accredited Professional, CII.

This project was headed by **Mr. K.P.S. Ramesh, Air Treatment Engineering Pvt. Ltd.**, specialists in the fields of HVAC, Noise Control, Acoustics, Energy Storage and Heat Recovery.

DRI™ TFAs
(Treated Fresh Air Unit)



with
ECO-FRESH™
Heat Recovery Wheel (HRW)



which reduced
A/C cooling
load by almost **26%***

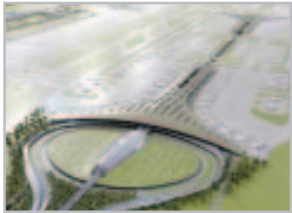
- Every chiller is 370 TR air-cooled screw chiller.
- Both the primary and secondary pumps have VFDs.
- The BMS designed and installed to operate the Chillers and Pumps in the most efficient way.
- A separate Treated Fresh Air unit per every AHU room.
- Enclosed stair cases pressurized.
- **102 Nos. Treated Fresh Air units models FLE-150 with Heat Recovery Wheels Model HRW-950, each handles 2400 cfm of fresh air.**

Each of the 102 DRI Treated Fresh Air (TFA) units with EcoFresh Heat Recovery Wheel inside, provides 2400 cfm of fresh air totalling to 244800 cfm. These units recover a whopping 1075 tr of Air conditioning load in summers.

*% reduction efficiency is dependent on Fresh Air (FA) load.

Designers opt for **ECO-FRESH™** HRWs for Beijing Capital Airport Expansion

DRI wheels to provide fresh air and recovery to the prestigious Beijing Capital Airport expansion project. More than 45 wheels will be installed in the modern infrastructure.



Beijing capital airport is slated as one of the most modern airports in the mainland and currently is undergoing major expansions to cater to the expected traffic for the Beijing Olympics 2008. After tight evaluation the tendering committee for the project specified DRI heat recovery wheels against tough international



45 ECO-FRESH™ wheels for Beijing capital airport undergoing major expansion for Beijing 2008



and local competition for treated fresh air handlers.

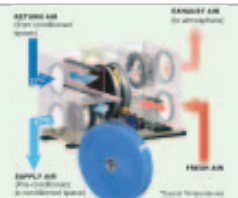
A special design team was set up to test and evaluate treated fresh air handling units with **EcoFresh** heat wheels and to specify suitable and high quality AHU manufacturers. A total of **45 EcoFresh wheels** out of which 16 sensible, and 29 molecular sieve coated, were specified to treat 404690 m³/h of fresh air.

After bidding the two successful bidders identified and awarded contracts were Carrier Aicon and Fengshen Aicon. The **EcoFresh** wheels are currently under commissioning.



AAI also opts for **DRI™** ERVs

AAI has installed to ERVs in its offices in Delhi to maintain fresh air inside. AAI is in the process of installing ERVs in various areas all over the country.





World-class R&D and Test Facilities for **ECO-FRESH™** Heat Wheels and Rotors



DRI has set up a world class testing facility / R&D Lab for performance evaluation of Energy Wheels, in association with Intertek Testing Services, Cortland (Intertek Associates with ARI for the ARI 1060 Programme). **Intertek has been a leader in HVAC&R equipment testing for over 50 years. Intertek is a testing lab for most ARI's programmes.**

Desiccant Rotors International (DRI), a Pahwa group company, is a world leader in fluted media technologies specializing in desiccant and enthalpy rotors and cassettes and evaporative cooling pads. Desiccant Rotors International (DRI) has spent over 200 "man-years" of research in the field of rotors, to create the ideal honeycomb / fluted media, best suited for every application.

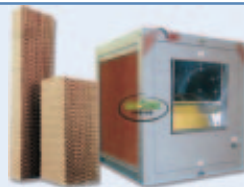


ARI performance certified : ARI (Air-conditioning & Refrigeration Institute, www.ari.org) certification help ensure HVAC (Heating, Ventilation and Air-conditioning) products perform as rated. In order for a piece of equipment to be certified, its rating and performance must meet or exceed the applicable ARI Standard for Rating.

Certified for Zero Microbial Growth : *EcoFresh* Wheels are specially treated for prevention of any microbial growth on its surface and are certified by Shriram Labs. As per the DIN EN ISO 846 standard, showing 0% fungi and bacterial growth.

Certified for Zero Flame Spread : DRI conforms to NFPA - 90A certification for 0% Flame spread classification and is tested in accordance with NFPA 225 and ASTM – E84-95 *Standard Test Method for Surface Burning Characteristics of Materials*. Metallic construction, eliminates concerns about combustibility and flammability.

Other "Fresh Air" Products



- Evaporative Cooling Pads
- **ARCTIC** Cooler



DESICCANT ROTORS INTERNATIONAL Pvt. Ltd.
(Formerly Arctic India Engineering Pvt. Ltd.)
20 Rajpur Road,
Delhi - 110054 **INDIA**
Phone : 91-11-23906666
Fax : 91-11-23906600
E-Mail : dri@pahwa.com
Website : www.drirotors.com

Korea Rep. Office

Phone : 82-2-4140629
Fax : 82-2-4140639
E-Mail : drikorea@hanmail.net
Website : www.drikorea.co.kr

BRY-AIR (MALAYSIA)
International Marketing Div.
Phone : 60-3-89256622
Fax : 60-3-89259957
E-Mail : bryair@bryair.com.my
Domestic Marketing Div.
Phone : 60-3-77259919
Fax : 60-3-77259957
E-Mail : bam@bryair.com.my
Website : www.bryair.com.my

BRY-AIR (THAILAND)
Phone : 66-2-5415479
Fax : 66-2-9389314
E-Mail : info@bryair.co.th
Website : www.bryair.co.th
BRY-AIR (CHINA)
Phone : 86-21-51591555
Fax : 86-21-51591559
E-Mail : bryairsh@bryair.com.cn
Website : www.bryair.com.cn

BRY-AIR (UAE)
Phone : 971-6-5575747
Fax : 971-6-5575780
E-Mail : bryair@eim.ae
Website : www.bryairdubai.com
BRY-AIR (AFRICA)
Phone : 27-11-6150458
Fax : 27-11-6166485
E-Mail : bryairafrika@telkomsa.net
Website : www.bryair.co.za

BRY-AIR (AUSTRALIA)
Phone : 61-8-93494501
Fax : 61-8-93494511
E-Mail : smalkani@swiftdsl.com.au

- India ● Korea ● Malaysia ● Thailand ● Japan ● China ● UAE ● Africa ● Australia ● Europe ● Brazil ● USA