



FRESH AIR

FRESH NAME

ARCTIC INDIA ENGINEERING
is now
DESICCANT ROTORS INTERNATIONAL . . . 

The process of globalisation requires a constant change. Some of our hi-tech components/products supplied to USA, Europe, Japan, Korea, by our export division, **Desiccant Rotors International (DRI)** have gained wide acceptance abroad. In India the same products are manufactured and sold by Arctic India Engineering. To streamline and have one identity the world over for this group company, we have changed the name from Arctic India Engineering Pvt. Ltd. to Dessicant Rotors International . . . DRI.

We thank our customers in India for their patronage and look forward to their continued support, assuring them of the same international quality and reliability they have come to expect from our products over the years.

Our IAQ range of Treated Fresh Air Units and Energy Recovery Ventilators are being used in hotels, auditoriums, multiplexes, healthcare and pharma industry worldwide to provide fresh indoor air which helps improve health, comfort and productivity without adding to the airconditioning cost.



EGOFRESH™
Energy Recovery Devices



ECCODRY™
Desiccant Rotors



ECCOCOOL™
Evaporative Cooling Pads



FLEXAIR™
Fresh Air Units

Bry-Air Asia acquires Global Rights from Bry-Air Inc., USA

Bry-Air (Asia), part of the Pahwa group, has acquired the global business interests and marketing rights from Bry-Air Inc., USA, which includes the **Bry-Air brand and all trademarks** of Bry-Air Inc., USA.

Bry-Air Inc. USA will remain an autonomous and financially independent corporation with manufacturing, sales and marketing rights licensed for USA, Canada and Mexico from Bry-Air (Asia).

Mr. Deepak Pahwa
Managing Director,
Bry-Air (Asia)
being honoured as
'Fellow ASHRAE' by
Mr. Lee Burgett,
President, ASHRAE



Some of the World's TALLEST, Projects maintain IAQ with



IAQ Problems . . .

ECO-FRESH Solutions

The rapid expansion of commercial, modern buildings and spaces have increased the participation of airconditioning and its resultant problems in our lives. Very often, in order to lower energy costs and limit aircon tonnage the quantity of fresh air is cut down, resulting in many health problems.

The **DRI** range of Fresh Air Treatment Equipment viz., the ERVs, TFAs and HRWs provide the perfect solution to the dilemma of the Designing Engineers. They allow designers to design systems with more ventilation while keeping energy costs low. They help to recover waste energy from exhaust air and uses the same to precondition the fresh air thereby saving energy and enhancing IAQ.

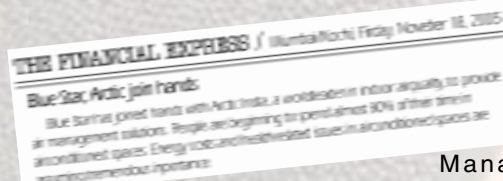
DRI and **BLUE STAR** join hands to promote IAQ

Desiccant Rotors International Pvt. Ltd. (DRI) formerly Arctic India Engineering Pvt. Ltd. and Blue Star India signed

MOU to provide Quality Air Management

Equipment and Solutions to the HVAC&R industry in Asia. DRI will provide Blue Star, Energy Recovery Equipments like FlexAir, Energy Recovery Ventilators (ERVs) and Ecofresh Recovery Wheels (HRWs) as well as Ecocool Evaporative Cooling Pads based modules for Blue Star's Air Cooled Chillers.

Deepak Pahwa, Managing Director, DRI, and B Thiagarajan, Vice President, Blue Star said **"The mission of our alliance is to provide people living and working in air conditioned spaces to breathe better quality air and at the same time, help building owners and managers cut down their energy costs"**.



Grosvenor House, Dubai



Oasis Tower



Al Fattan Marina 1 & 2, Dubai



Buhaleeba Tower



Paharpur Business Centre, Delhi



Vatika Group

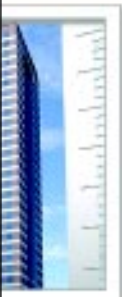


Cyber City, Mauritius



NCI Cancer Hospital

BIGGEST, LARGEST EcoFresh inside



er, Dubai



La Riviera Tower, Dubai



Madina Tower, Dubai



ower, Dubai



Capricorn Tower, Dubai



Petronas Towers, Malaysia



Khivraj Tech Park, Olympia, Chennai



b, Gurgaon



CIIE-GBC, Hyderabad



ospital, Malaysia



Ministry of Finance, Malaysia



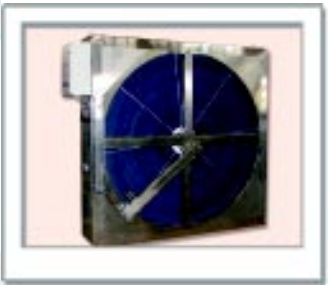
National Theatre, Malaysia

new Fresh Air Treatment range from DRI launched at



new FlexAir Treated Air Units (TFAs) – The next generation of Fresh Air units.

new EcoFresh Wheel – for paint booth application.



new EcoDry Plus Humidity Management System (HMS Series) – enables you to manage humidity and temperature independently. Ideal applications include supermarkets, theatres, hotels, hospitals, etc.

new EcoFresh Plus Dual Wheel Energy Recovery System (DWERS Series) – Ideal for high occupancy and high humidity conditioned areas like auditoriums, BPOs, KPOs, Call centers, etc.



new Evaporative Cooling modules for AHUs and Chillers.



WTC Dubai breathes better with **ECO-FRESH** retrofitted in its existing AHUs

WTC (World Trade Center), Dubai is a landmark being the first high-rise building in Dubai.

Constructed in 1978, the 36-storey building symbolizes commercial growth of Dubai..

The initial HVAC design incorporated nine (9) heat recovery wheels (steel mesh type) and five (5) run-around coils. The Heat Wheels were of large sizes in the range of 2.8 to 3.2 m diameter and each catering to 30,000 to 46,000 CFM.

Dubai World Trade Center was able to use the Heat Recovery Wheels till the year 2002 only due to the highly professional operation and maintenance.

Desiccant Rotors International (DRI) , along with Energy Management System (a Dubai-based energy consultant and performance contracting company) were called in to do a detailed survey to work out the possibility of modifying the design.

WTC wanted to replace the old Heat Recovery Wheels, which were performing with very poor efficiency (only sensible, no latent recovery) with new Heat Recovery Wheels with high sensible and latent efficiency.



The retrofit process had to overcome the following challenges :

- The handling units could not be switched off as the building was in constant use except on the weekends.
 - The new heat wheels had to be tailor made to suit the exact dimensions of the existing heat wheels.
 - The new heat wheels had to be retrofitted without changing the duct plenums.
 - The new heat wheels had to be segmented to allow them to be transported to various floors by using the normal lifts that have capacity limitations.
- DRI deputed an engineer from their Plant to the site to make an assessment of the situation in order to tailor-make the Heat Recovery Wheels. The Ecofresh Heat Wheels were shipped and successfully installed. The Ecofresh wheels are performing as designed, giving high sensible and latent efficiency. The total cost of replacing the heat wheels had a payback period of less than 2 years.



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A **PAHWA** ENTERPRISE