

# dry facts

from **Bry-Air** [www.bryair.com](http://www.bryair.com)

JULY-AUG.-SEPT. 2006

VOL.16 NO. 3

**Bry-Air**

## Deepak Pahwa is new IACC President



INDO-AMERICAN  
CHAMBER OF COMMERCE

Mr. Deepak Pahwa, Managing Director,  
Bry-Air (Asia) Pvt. Ltd and the Group Chairman, Pahwa Enterprises,  
has been unanimously elected as the President of Indo-American Chamber of Commerce (IACC)  
for the year 2006-07. He was elected at the recently held Executive Committee of IACC at Mumbai.

Mr. Pahwa's election as the President of IACC assumes importance, at a time when the  
Indo-US economic relations are poised to register a qualitative change.



## 3rd Indo-US Economic Summit – Accelerating Growth



**Mr. Deepak Pahwa, also chaired the Indo-US Economic Summit in which the focus was  
Accelerating Growth : Infrastructure and Manufacturing.**

The importance that has been assigned to the Indo-US Economic Summit - the third edition of it was just concluded in Delhi recently - by the Government of India, the US Administration and businesses of both countries pins a lot of responsibilities on IACC to take the Indo-US Economic relations to an higher orbit of growth. We will unfold a series of innovative measures and programs.

**opts for **EcoSCRUB**™ to remove Furfural gas odour**

**The Problem**

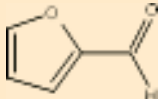
OCL contacted Bry-Air Airgineers for a solution to the problem of Furfural gas emission and odour in its mould filling area.



The problem was to limit emission of Furfural gas which was being formed when the refractory mix was coming into contact with room air of the mould filling area. The gas is emitted from the bonding mix.

Furfural gas is highly toxic and causes headache, dizziness and can eventually lead to unconsciousness and even death. When inhaled, it can cause swelling and spasms of respiratory tract.

Also repeated exposure in the Furfural gas, can

Furfural Facts		
	Chemical formula	C <sub>5</sub> H <sub>4</sub> O <sub>2</sub>
	Formula weight	96.09 g/mol
Synonyms	2-furancarboxaldehyde, fural, furfuraldehyde, pyromucic aldehyde	
CAS number	98-01-1	
Gas properties		
$\Delta_f H^0_{liquid}$	- 151.0kJ/mol	
C <sub>p</sub>	90.8 J/(mol□K)	
Safety		
<b>Acute effects</b>	Toxic irritant. Can cause headache, dizziness, nausea, and eventual unconsciousness and death. When inhaled, can cause swelling and spasms of the respiratory tract.	
<b>Chronic effects</b>	Repeated exposure can cause skin allergies and photosensitization. Can cause liver and kidney damage	
<b>Flash point</b>	62°C	
<b>Autoginition temperature</b>	315°C	
<b>Explosive limits</b>	2-19°C	

cause skin allergies and photosensitization. It can also cause liver and kidney damage.

**The problem was to control the Furfural gas.**

**The **EcoSCRUB**™ solution**


The Airgineers from our Kolkata office recommended a Bry-Air **EcoScrub** Air and Gas Purification System (AGP) recirculatory model BPU-2000-T-V-1 with a media life of 6 months to remove Furfural gas for the room size of 28,000 CFT.

The unit is to be installed in AHU room and connected with the return air duct of AHU.

The Furfural gas will thus be removed to protect personnel in the mould filling area against ill effects of the gas.



**OCL also uses a Bry-Air FVB-5000 Desiccant Dehumidifier for the same area for maintaining a relative humidity of 45 ± 5% RH at 20°C.**



# WHEN MOISTURE IS TORTURE !

In this column, we will share with you regularly our experience on major application areas where usage of dehumidification is both extensive and essential.

## Flying High ! Don't let Moisture ground you !!



**Safety and zero downtime is of paramount importance to Airlines**



Uncontrolled humidity/moisture is the single major cause for all losses of high value and critical aircraft components, especially, jet engines while in storage. This leads to a huge financial loss as well can lead to accidents resulting loss of human lives.

### Jet Engines Storage

Almost all airlines store/maintain engines as standby for quick replacement. These engines are very expensive and are usually needed in emergencies, in case of engine failure.

The jet engines are generally stored in a room in/near the hangars at airports. During storage they are likely to get damaged due to corrosion. Ferrous material like iron and steel corrode in presence of moisture.

Electronic equipment and components also suffer from microscopic corrosion.

### Corrosion Free, Safe Storage of Aircraft Components

Corrosion can be prevented by controlling RH at about 40% or below. Materials or products residing in this

atmosphere need not be coated with oil or other surface protecting materials, and can thus be kept in ready-to-use condition.

This significantly reduces the cost of painting and other maintenance normally required to control corrosion.

Most metal parts do not need to be stored in areas which need temperature control. Where temperature control is needed, desiccant dehumidifiers can be used in conjunction with air-conditioner. Thus, humidity control through desiccant dehumidification is a much more economical method than air conditioning.

The simplest and most effective method to control humidity is to install Bry-Air dehumidifier which can maintain RH as low 1% or even lower at a constant level, regardless of ambient conditions during production, processing, storage and packaging.

**TAECO**  
**depends on **  
**to solve its humidity problems**

**Taikoo Aircraft Engineering Co. Ltd (TAECO)**, a venture between Japan Airlines, Cathay Pacific Airways, Boeing Co, Hong Kong Aircraft Maintenance Engineering and some Local Aviation Companies have their facility in Xiamen, China.


Starting in March 1996 with two B747-bays, TAECO has expanded to cater to six wide body aircraft and three narrow body aircraft for heavy maintenance simultaneously, each equipped with complete independent docking systems. *TAECO's high level of quality and workmanship has brought them enormous success over the years.*

**Bry-Air has been TAECO's preferred Dehumidifier supplier for every project where dehumidification was needed due to their high reliability, efficiency and economically sound Dehumidification. TAECO uses 25 units Bry-Air Dehumidifiers, supplying dry air to the facility close to 100,000 CMH!**



**Not only Metal parts even Chocolates get spoiled by uncontrolled humidity !!**

Malaysian Airlines uses Bry-Air dehumidifiers to keep expensive chocolates in shape which need to be stored at  $35 \pm 5\%$  RH at  $25^{\circ}\text{C}$  to avoid spoilage.

**Create a Humidity controlled area in the Hangar, with the  Enviroliner ...**



## Block these dates

December

Visit us at

### Booth# H49-51 IPC Pharma Expo 2006

Dec. 1-3, 2006  
Bombay Exhibition Center,  
Goregaon, Mumbai

January

Visit us at

Booth# 446

**Asia  
Pharma  
Expo-2007**  
Dhaka, Bangladesh

Jan. 11-13, 2007  
Bangladesh China Friendship Conference Centre,  
Dhaka, Bangladesh

January

Visit us at

**Comfex  
2007**

Jan. 18-20, 2007  
Science City, Kolkata

January

Visit us at

Booth# 1471  
**ABREXPO**

Jan. 29-31, 2007  
Dallas Convention Centre,  
Dallas, Texas



**Bry-Air**® at  
**NPE'06, USA**  
June 19-23, 2006  
Chicago, USA

**Bry-Air**® at

**China  
Refrigeration**  
April 11-13, 2006  
Shanghai, China



**Bry-Air**® at  
**FOOMA**  
(Food Industry  
Machinery Exhibition)  
June 2006, Japan

## Shifting Location . . .

**Bry-Air**® China shifts office



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