

dry facts

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Bry-Air® Striding Ahead in China . . .

Bry-Air set up its operation in China as a representative office in June, 1998. Now, a decade later, consistent growth and increased market presence has led to Bry-Air's expanded presence in the mainland.



Bry-Air now has a wholly owned subsidiary, Bry-Air (Shanghai) Air Treatment Equipment Co. Ltd. Head quartered in Shanghai. Bry-Air Shanghai has full-fledged sales and service offices in Beijing, Wuhan, and Guangzhou also.

Bry-Air® proud to be associated with Beijing 2008

Indian touch for a greener Beijing Olympics

Suresh Chinn
Bangalore

INDIA has been helping to "green" up the Beijing Olympics. An Indian company is actively involved in helping China clean up the environment as a worldwide bid for the Olympic Games. Gurugram-based Bry-Air has installed its energy recovery systems in locations associated with the games. These include Beijing Shooting Gallery, Beijing University Gymnasium, the State Conference Center and the Beijing Airport helping the dragon country to tackle the pollution issue. China has been severe in its efforts to tackle pollution. Air quality in Beijing is still a big issue less than 48 hours

before the games are due to begin. Organisers are reportedly ready to even postpone or relocate events if smog levels reach dangerous levels. Beijing holds the distinction on the World's list of the most polluted cities on the planet. Bry-Air, the Indian firm helping the communist regime fight pollution already has a presence in China. Desiccant Rotors International (DRI), sister company of the Rs 275-crore Bry-Air won the contract to install 45 heat recovery ventilators at Beijing international airport, Beijing Shooting Gallery, Beijing University Gymnasium and the Stated Conference Center to provide fresh air to visitors. "We got a very clear and stringent specification with regard to the work associated with the games. They were looking at the highest, re-coverage percentage. Our systems help in saving around 80 per cent of the energy that is lost with the outgoing air, and also helps in increasing the quantity of fresh air," said Deepak Pahwa, managing director, Bry-Air Asia. "We already have a presence in China with over 300 installations. Of this, Beijing alone has over 100. But it is an honour being associated with the biggest sports extravaganza in the world. We are also excited about the kind of attention given to environment," said Pahwa.



China Refrigeration April 08, China

Tianjin 8th Battery Show 2008, China



Exploring New Territories . . . in Turkey

Bry-Air® at Sodex Turkey

The participation helped Bry-Air to map out the emerging market in Turkey.



WHEN MOISTURE IS TORTURE !

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

Moisture can destroy Heritage !

Museums, libraries and archives are all custodians of our heritage and help to preserve our history alive through invaluable paintings, objects d'art and historical records. Therefore, it is important that these items be preserved in their original state for future generations to enjoy.



Moisture Problems

Majority of artifacts like books, parchments, paintings, etc., preserved in museums, libraries and archives are made of natural organic material; wood, leather, paper, natural fibre, bone, ivory, etc. All of which are prone to be affected by moisture leading to organic corrosion or deterioration, which can be beyond retrieval if not controlled in time.

The natural environment takes its toll over the years and can lead to the decaying of paper, parchments, photographic negative film, as well as fading of organic dyes and colors. Constantly changing temperatures and humidity levels can also contribute to this process. Humidity, in particular, is a natural enemy of preservation. We are all familiar with the various forms of organic corrosion in which decay can occur at a rapid level in the presence of high humidity.

When they absorb moisture, they provide a base for micro-organisms to multiply and breed causing irreparable damage.

Humidity Control : Time tested Solution

Museums and archives require special environmental conditions, mostly below the ambient dewpoint, specially in tropical, hot and humid climates.

Problem

Libraries, archives, museums . . . and all similar areas face one inherent problem.

Preserving the books, historic documents, paintings, photographs from the ravages of time.

Solution

**Humidity control with
Bry-Air Dehumidifiers
Simple and cost effective**

Bry-Air environmental control systems allow for consistent and dependable control to prevent the effects of humidity on archives.



Museums and libraries should maintain humidity levels of 40 - 45% RH. This level of humidity prevents drying out of the material while, at the same time, preventing warping and the formation of mildew. Archival storage may have different requirements depending on the item being stored.

Negative film storage requires temperatures of 55-70°F (13-20°C) and a relative humidity of 30%, while drawings and maps can be stored at temperatures as low as 50°F (10°C) and 30% RH.

Dehumidification keeps the relative humidity level low and stable, therefore retarding or preventing decay from organic mold formation.

Bry-Air desiccant dehumidifiers, when used in conjunction with air conditioning, can provide the perfect environmental storage conditions for all sorts of valuable artifacts, documents and works of art. Bry-Air dehumidifiers provide a low humidity environment which prevents microbial attack. The dry air is often enough for preservation without necessarily involving temperature control.

Large and famous museums, churches and libraries use only dehumidification without temperature control to save and preserve the priceless treasures of the world.



Preserving Heritage at . . .

Mao Tse Tung Museum



Mao Tse Tung Museum

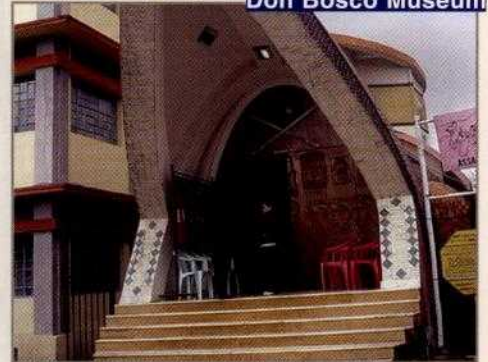
Shaoshan Mao Zedong comrade memorial hall, which is more than eight thousand square meters in area, has twelve (12) exhibition halls exhibiting memorabilia from Mao's life time. The memorabilia includes the great dragon seal, which is a first-class historical relic of the nation, the watch which was presented by Guo Moruo at Chong qing, the nightclothes which had 73 patches and had been wore for several decades, the bills and the recipes of Mao Zedong's family life.

The museum has recieved over fifty million visitors since its opening to the public in 1964, including leaders from China and abroad. Bry-Air dehumidifiers are perserving these artifacts and memorabilia at Shaoshan Mao Zedong comrade memorial hall.

Don Bosco Museum

Bry-Air supplied **13 dehumidifiers** to Don Bosco Centre for Indigenous Cultures (DBCIC), Shillong, India for preservation of artifacts. Helping the young generation to identify with their cultural heritage, DBCIC houses some unique and priceless treasure like paintings, handicrafts, costumes and armaments, musical instruments and statues. DBCIC is not only a museum but also a research center on the tribes of North-East India, with a comprehensive library of its own. DBCIC is one of many renowned Museums and Libraries using Bry-Air Dehumidifiers to save and preserve the priceless treasures of the world.

Don Bosco Museum



Princess Library



Princess Library, Thailand

35 compacts have been installed at the Royal Princess Library in Thailand where the princess's vast collection of books, some dating back 200 years, are being preserved with the help of dehumidifiers.

Intl. Islamic University



University Islam Antarabanga, Malaysia

Bry-Air compact dehumidifiers have been used effectively to preserve books and archival material at University Islam Antarabanga. The Int'l University Islamic University at Malaysia has installed **26 Bry-Air Compact Dehumidifiers** to maintain low humidity inside the library to protect books.

Sharjah Library

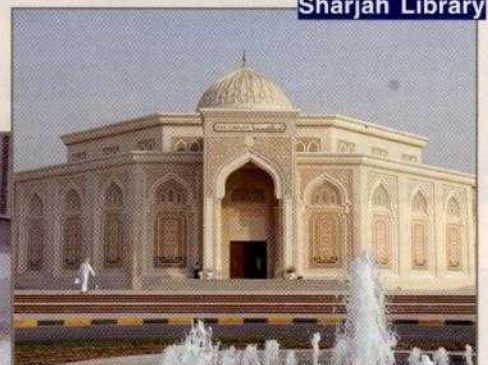
The men's library at Sharjah University has some very priceless books and documents. The library is fully air conditioned. Humidity levels used to rise due to condensation when the airconditioning was shut down in the evening when the library closed down for the day.

This resulted in mold and mildew growth, which damaged the expensive and some irreplaceable documents and books. The solution was found, when **2 Bry-Air dehumidifiers** were installed in conjunction

with the air-conditioning system and now the library remains unaffected by any moisture related problems and damage.



Sharjah Library



Bry-Air dehumidifiers are currently being used for the preseravation of Civil War articles in New York and valuable paintings at the Smithsonian Institute in Washington D.C.

Bry-Air**ECC SCRUB™**

Air and Gas Purification System to check . . .



In museums and other "preservation environment", temperature, humidity, particulates and gaseous contaminants cause degradation of priceless artifacts / objects. Of these, the most destructive are gaseous contaminants e.g. sulphur dioxide, ozone and nitrogen dioxide.

. . . degradation of artifacts in Museums, Libraries and Archives

Concentrations of gaseous contaminants in these "preservation environments" need to be maintained as low as attainable. This can be accomplished through the use of various dry scrubbing air filtration media employing the processes of physical adsorption and/or chemisorption.



The source of these contaminant gases can be:

- ◆ Artifacts and archival materials themselves.
- ◆ Materials and activities associated with restoration and conservation.
- ◆ Automotive or industrial emissions migrating from the outside atmosphere.
- ◆ Employees and patrons.

**Bry-Air** **ECC SCRUB™**

Air & Gas Purification System (AGP)

provides an ideal and cost effective solution to degradation control of artifacts in museums, libraries and archives. Available in four different models ranging from 500 CFM (850 CMH) to 2000 CFM (3400 CMH), both as pressurization as well as recirculation modes, all **EcoScrub** units are designed

to operate and maintain contaminant gas levels at 1 ppb or less.

4th **Bry-Air** **Awards for Excellence in HVAC&R** **Nomination open for** **Send Today!**
Nomination Deadline October 31, 2008 **For more information visit www.bryairawards.com**

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An ISO 9001 : 2000 and ISO 14001 COMPANY

A PAWHA ENTERPRISE