

Bry-Air

dryfacts

...from BRY-AIR



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BUILDING CONTACTS



Thermolung, Japan, signs OEM Contract with Desiccant Rotors International (DRI).

- Signing ceremony at Nittetsu HQ at Tokyo, July 9,2001.
- Thermolung does about 3 million USD worth of Heat exchangers for the Japanese market and will source about half of it's requirement from India.
- Thermolung also plans to market Bry-Air's FFB Dehumidifiers in Japan.



N. AMERICA >> KOREA >> JAPAN >> GERMANY >> DRI BREACHES THE BERLIN WALL

KKW, Germany opts for Ecodry Desiccant Rotors for it's Cooling System for Hitech Medical Equipment

KKW, Germany, the leading manufacturer and supplier of Cooling Systems to a leading European manufacturer of medical equipment, placed consecutive orders for two batches of 25 plus Ecodry Desiccant Rotors from DRI. With this, DRI breached another stronghold of its competitors.

ECO DRY ROTORS
... also the heart of
BRY-AIR
FFB & FVB Dehumidifiers



Bry-Air is a regular participant at the show. The booth was a good place to touch base with associates and make new contacts



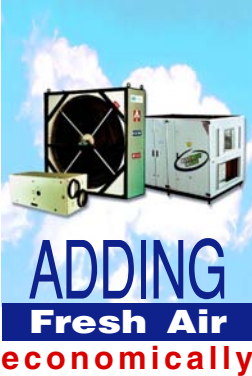
This was the second time Bry-Air participated at the show.

At both shows, the response to the Bry-Air Dehumidifiers and Ecofresh Wheels displayed at the booth was overwhelming. Our team at Shanghai, China has a busy time ahead !



Air and Gas Purification Systems

Details on Back Page



IAQ + Energy Saving with



at

• KLCC Tower, Kuala Lumpur, Malaysia • Shenyang Huafa Indoor Water Amusement Park, China • OBI Shopping Center(s), Wuxi and Shanghai, China • Adarsh Shopping Center, Bangalore, India • Signature Tower, Gurgaon, India • Shangri-La Hotel, Bangkok, Thailand • The Tower, Dubai, UAE • Paya Labar Airport, Singapore

ECOFRESH provides FRESH AIR SOLUTIONS at



Shenyang Huafa Indoor Water Amusement Park, China

The Shenyang Huafa Indoor Water Amusement Park, is billed to be one of the biggest amusement parks of its kind in China. To provide good Indoor Air Quality (IAQ) to the tourists, holiday makers and its own workers, the Shenyang Huafa project needed over 260,000 cmh of fresh air to be treated as the whole park is air conditioned. Thus, in order to save energy as well as maintain Indoor Air Quality (IAQ), 14 nos. Ecofresh Sensible Heat Recovery Wheels, HRW-1900s-7 units, HRW-1700s-1 unit, HRW-1500s-1 unit are being installed with York AHUs to treat fresh air flow of 2,60,000 cmh.



OBI Shopping Center(s), Wuxi and Shanghai, China

The Shoppers and workers of OBI Shopping Centers in Wuxi and Shanghai, China, have the benefit of breathing a better quality of conditioned air while they shop and work in the center and thus lead a healthier life. The requirement of over 160,000 cmh of fresh air to save energy as well as maintain IAQ (Indoor Air Quality) at the three shopping Centers (one at Wuxi and two at Shanghai) was met by installing 5 nos. Ecofresh Heat Wheels models HRW 1500 (4 nos.) HRW 1300 (1 no.) and HRW 1200 (10 nos.) with the McQuay AHUs.



Adarsh Shopping Center, Bangalore, India

Adarsh Shopping center, located at the up-market downtown area of India's Silicon Valley, Bangalore opted for the Ecofresh Treated Fresh Air Units to provide a better quality of conditioned air to its shoppers and workers. The totally air-conditioned, multi-story, shopping complex has installed 8 nos. of Treated Fresh Air Units (TFAs) models FLE 90 (4 nos.) FLE-150 (2 nos.) and FLE 300 (2 nos.). The TFAs have the Ecofresh Heat Wheels incorporated as a part of its standard options.



Hotel Al Bustan in UAE also uses 2 nos. TFAs Model FLE 300 to maintain IAQ and save energy in the hotel.

The Tower, Dubai, UAE

The Tower, one of Dubai's new commercial complexes was able to reduce its airconditioning tonnage by 1000 tons and remove a chilling plant by installing Ecofresh Heat Recovery Wheels. The project handled by UTS Carrier involved installation of Ecofresh Heat Wheels Model 2400 and 2200, 4 nos. each along with 1 no. HRW 1300.

UTS Carrier has incorporated many ECOFRESH Wheels in its various prestigious projects in UAE, e.g. **Sharjah Mega mall, Fujairah Resort, TABREED 2,3 & 20** and many more to ensure a good IAQ as well as energy saving in the buildings handled by them.



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.

Moisture Damages Welding Electrodes in Storage !!



Welding is an important tool for efficient maintenance of plants and quality fabrication in industry

In applications varying from simple fabrications of plain carbon steel to demanding joints in high strength materials welding process is widely used. The **welding electrode** in this process serves both as the **arc carrier** and the **filler metal**. It consists of an alloyed or unalloyed core-wire and a flux coating. Electrodes are available in various diameters and lengths, depending on the position, material thickness and requirements of the welded joint.

There are five main groupings of electrodes :

1. Rutile (Titanium dioxide)
2. Basic (Calcium carbonate and fluoride)
3. Cellulosic (Cellulose)
4. Iron powder
5. Surfacing and non-ferrous alloy types

Care and storage of electrodes

Generally, it is assumed by the welding engineers that quality of the welding depends on the skill of the welder or the quality of the welding consumable, i.e. the electrode. More often than not another factor, moisture, plays an important role in the "poor" quality of welding. The quality of welded joint and ease of welding depends entirely on the condition of electrodes. If the mineral coating is damaged, poor arc stability and inadequate shielding will result.

As most electrodes are mineral coated, they are highly hygroscopic in nature. If not properly stored, most of the coating materials can absorb moisture. This could result in deterioration of coating and subsequent hydrogen pick-up in the weld bead.

Any one or more of the following problems may indicate deterioration of the electrode coating due to moisture :

- i. Increased Arc Voltage (arc instability)
- ii. Excessive Spatter
- iii. Porosity in weld deposit (poor bead profile)
- iv. Underbead cracking/heat affected zone cracking (which is not directly visible but which may result in premature breaking of the joint)
- vi. Poor slag removal/release
- vii. Undercutting and general rough welds.

The **Bry-Air** Solution

These hazards can be eliminated by ensuring that humidity is properly controlled at the time of

1. Manufacture
2. Storage prior to packaging
3. Packaging
4. Bulk user storage

Relative Humidity should be maintained at $40 \pm 5\%$ at ambient temperature to retain the quality of the mineral coating of welding electrode by installing a Desiccant Dehumidifier.

Bry-Air Dehumidifiers have effectively maintained the exact condition needed for welding

Electrode Storage for

- Phillips ● Alstom Power Boiler Ltd.
- Cochin Shipyard Limited
- General Electrodes & Equipment Co.

- Gujarat Machinery Mfr. Pvt. Ltd.
- Integral Coach Factory
- Indian Oxygen
- Jaisub & Co. ● L&T Limited
- Maharashtra Weldair ● ESSAB,
- Advani Orlicon ● BHEL and many more.



The Bry-Air Dehumidifiers remove moisture from the air through a process of continuous physical adsorption. Bry-Air has a large range of standard and engineered Dehumidifiers, which can maintain RH at the desired level thereby ensuring longer shelf life of electrodes.

Introducing



AIR & GAS PURIFICATION SYSTEMS **for maintaining Industrial IAQ**

What is a Air & Gas Purification System

The *Bry-Air* Air & Gas Purification systems helps to filter gaseous contaminants like SO₂, H₂S etc.

Gaseous filtration is a simple and cost effective solution to a problem than can be very costly from a production standpoint.

Why do you need a Air & Gas Purification System ?

- To prevent CORROSION of process computers and delicate electronic equipment in industries such as oil refineries, pulp & paper mills, chemical plants etc., caused by acid gases (hydrogen sulphide, sulphur dioxide, nitrogen oxides), mercaptans and chlorides.
- To control ODOUR problems in municipal waste water treatment plants located near / in crowded urban areas.
- To maintain acceptable IAQ levels in enclosed air conditioned places.

The SOLUTION to corrosion and odour problems lies in GASEOUS FILTRATION, which involves passing the contaminated air stream through a bed of dry media placed in a properly designed housing.

Air & Gas Purification Systems are an absolute must for removal of acid gases, control of air pollution and odour, elimination of hydrocarbons of

- Pulp & Paper Mills • Refineries & Petrochemicals
- Steel & Aluminum Manufacturing Plants • Power Generation Plants • Mining & Metallurgy Industries • Sewage

Treatment Plants • Laboratories & Pharmaceutical Plants • Commercial Printing Plants • Clean Rooms • Food Processing Plants • Textile Mills.

The *Bry-Air* Air & Gas Purification System is the latest addition to range of airineered products from Arctic India Sales.

For more details, please Mail/Fax/E-mail your Queries to **The Product Manager**

Air & Gas Purification Systems

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Bry-Air

Rep. in South Africa
... KMS Engineering

KMS Engineering is one of South Africa's leading name in the HVAC industry so it was natural that *Bry-Air* and KMS Engineering to associate to support the S. Africa market.

Bry-Air has had a presence in S. Africa for more than 10 years and it's association

KMS has only strengthened it's network. The association has proved effective for both with *Bry-Air* bagging the prestigious order from Durban Municipality for dehumidification in their

Switching Rooms against major international players.

Headed by Mr. Chris Elston, a well known name in HVAC industry, KMS Engineering has all the technical support to cater to the needs of *Bry-Air* customers in the region.

For specific support in S. Africa for *Bry-Air* Dehumidifiers and Ecofresh Energy Recovery Systems,

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