

# dry facts<sup>®</sup>

50  
Bry-Air  
years of excellence

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## HVAC Technical Workshop in

■ Philippines ■ Malaysia ■ Vietnam ■ Indonesia ■ China ■ India ■ Kuwait ■ UAE ■ Oman ■ Brazil

on

- Applied Psychrometrics
- Desiccant Dehumidification
- Indoor Swimming Pool, Library & Hospital Humidity Control
- Gas Phase Filtration for Data Centers
- IAQ, Energy Recovery Ventilation, Energy Recovery Wheels & Heat Pipes for Green Buildings
- Dedicated Outdoor Air System options (DOAS)
- Chilled Beams
- Indirect Evaporative Cooling



# Applications Update

## Preventing Failure of Electronics

**Where:** Simulation Hall, UAE Army Training Centre, UAE



### Why:

To prevent failure of electronics components of FSTD (Flight Simulation Training devices) due to uncontrolled humidity and, thus, reduce breakdown and maintenance cost.



### How:

Installed an engineered type Bry-Air Desiccant Dehumidifier to control humidity to maintain required conditions.

## Dry Air for Aluminium Furnace

**Where:** EMAL, Abu Dhabi, UAE



**Why:** To increase production and decrease energy consumption.



**How:** Installed an engineered Bry-Air Desiccant dehumidifier to maintain 2% or lower RH at 50°C.

## Packaging Probiotic Powder

**Where:** Swiss Pharma Research labs. Inc., Philippines



**Why:** Packaging in small pouches extremely difficult as the probiotics in powder form are very hygroscopic. Uncontrolled humidity leads to loss of the material as well as its potency.

**How:** Supplied dry air in the packing room to keep the humidity level below 5% RH at 25°C by installing a Bry-Air engineered Desiccant Dehumidifier.

## Lithium Battery for Dry Room

**Where:** R&D Centre, Schlumberger, China

**Why:** Presence of water vapour during manufacture of lithium batteries resulted in reduced charging capacity, shelf life, safety and production issues.



**How:** By installing FLB type Bry-Air Desiccant Dehumidifiers, incorporating the Drypurge design (patent applied for), which maintains the dry room at -40°C or lower dew point.

## Creel Room

**Where:** Cooper Tire, China

**Why:** Uncontrolled humidity resulted in rusting of steel wires and prevented proper bonding between the steel and rubber, which led to large scale rejections.

**How:** Installed Bry-Air Packaged Desiccant Dehumidifiers to maintain RH at about 20%.



# When *moisture* is Torture !

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

## Dubai Aquarium & Underwater Zoo installs a **Bry-Air** Dehumidifier for a 'Clear View'

The Dubai Aquarium & Underwater Zoo located in the Dubai Mall recently made headlines when they unveiled "King Croc" as one of their displays. Crocodiles, as we all know, are one of the world's largest species of reptiles. A male crocodile named "King Croc" and his female companion of 20 years were imported by the Dubai mall from a crocodile farm of Australia, where they had been since 1996.

The pair now resides in a special enclosure at the Underwater Zoo that replicates their natural habitat.

King Croc and his companion will also be a key part of the year-round conservation campaigns which will be undertaken by the Dubai Aquarium & Underwater Zoo, as part of its commitment to promote environmental sustainability.

The statement added, "These large aquatic reptiles have a history of over 60 million years, surviving through different environments and terrains. Through our exhibit, we are offering the exciting opportunity for our visitors to learn more about crocodiles and their role in the ecosystem".

### The **Bry-Air** Solution

Contacted by Mall management, the **Airgineers™** provided solution to keep the humidity under control and avoid condensation by installing a **Bry-Air Desiccant Dehumidifier** which provided 4200 cmh of dry air.



The transfer to Dubai Aquarium & Underwater Zoo was facilitated in partnership with the Australian government authorities, after a review on the quality of the display, qualifications of staff caring for the animals, the educational purpose of the exhibit and the integrity of the business.

The Dubai Aquarium & Underwater Zoo is set to introduce an educational programme on crocodiles, approved by the UAE Ministry of Education, for schools and the visits to Aquarium will be a part of the curriculum.

### The Need : Clear Visibility Problem

**Condensation on glass enclosure**  
As the Crocodile enclosure is inside the mall which is an air-conditioned space, the differences in various temperature levels and indoor pool results in fogging of the glass of the enclosures. High humidity also causes the wood used for interior work to decay and rot. Also, mould and fungus forms on walls/glass.

Thus, now there is

- ❑ No Condensation on glass enclosure
- ❑ Clear visibility of the Crocodile glass enclosure
- ❑ No decay of Wooden interior
- ❑ No mould & fungus formation on walls/glass
- ❑ No foggy atmosphere

### Bry- Air opens Dr. Mathra Das Pahwa Learnnig Center

Bry-Air started "Dr. Mathra Das Pahwa Learning Center" for underprivileged women in Moga (Punjab) as a part of CSR activities. It is being run by Bhartiya Jagriti Manch - a local NGO. The objective is to support underprivileged girls/women in the creation of economical and social boost by education and learning of vocational skills.

The center is providing one year sewing course to the girls/women above 16 year of age. To begin with, 20 girls are already enrolled in classes.



### Green Day

The children of Pathshala were happy & excited to receive their new friends on Green Day Celebration. Bry-Air sponsored plants (Tulsi & Curry leaves) were given in pots to the children to plant.



The children were taught how to take care of the plants & their medicinal value through a video clip by the volunteers.

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### Cataract Surgery

done under

Dr. Mathra Das Pahwa

vision outreach programme



### CSR EYE CAMPS STATS.:

February, 2011 to September, 2014

Number of eye camps	- 40
Total no. of people treated	- 12107
Cataract Operations	- 1001
Free Spectacles distributed	- 6620
Free Medicine distributed	- 8058

### Support for Jammu & Kashmir

The employees of Pahwa Group collected one truck load of materials including clothing, dry rations and medicines for those affected by flood, which was further sent to J&K through NGO Goonj.

The management of Pahwa Group also contributed ₹1 Lac to the Prime Minister's National Relief Fund.