

dry facts[®]

50
Bry-Air
years of excellence

from **Bry-Air** [®] www.bryair.com

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Innovation is life



PAHWA GROUP
Innovation is life

Bry-Air
Leaders in Dehumidification...Worldwide

DRI[™]
Innovative Air Solutions

delair[®]
The Compressed Air Treatment System Company

TDS[™]
Air Solutions on Rent

"Innovation is life" is the new tagline for the Pahwa group, which epitomises its core strength. Innovation both in technology as well as business processes is the driving philosophy of the Pahwa group.



Bry-Air OPENS OFFICE IN NIGERIA

A steadily growing demand for dehumidifiers in the region has encouraged Bry-Air to incorporate Bry-Air Nigeria. Customers in the region can now expect a quicker support from our Airineers in Nigeria.

"Never too far from you"

Overseas Sales & Service Offices : USA ■ Brazil ■ Switzerland ■ UAE ■ China ■ Malaysia
■ Philippines ■ Vietnam ■ Indonesia ■ Korea ■ Japan ■ Australia ■ Nigeria

11 Worldwide Group Manufacturing Facilities: India ■ Malaysia ■ China ■ Switzerland ■ Brazil

■ 1400+ employees in six continents ■ Representatives in over 60 countries ■ Installations in over 80 countries

MOISTURE PLAYS SPOILSPORT



PROTECTIVE GEARS

Protective gears like gloves, shin pads and shoulder pads are made of polyurethane, which absorbs and reacts with moisture very rapidly. This degrades the material, which results in defects in the finished products.

LEATHER BALLS

Leather, being hygroscopic, absorbs moisture during processing, packaging and storage which results in increased microbial activity. This results in the leather balls losing their gloss and ending up with a dull finish, leading to rejection of the final product.

GOLF BALLS

Golf balls are made of thermoplastic ionomers or thermoset polyurethane. These materials are susceptible to moisture intake during the manufacturing process, and must be kept in humidity controlled area.

FOOTBALLS

Uncontrolled humidity in the football production and storage rooms causes growth of fungus, mold and mildew. This leads to decomposition of the footballs, thus spoiling the sheen of the finished product. To prevent this spoilage. It is necessary to maintain RH at less than 40% in the football production and storage rooms.

Most sports goods like gloves, wickets, hockey sticks, carrom boards, chess boards and various types of balls eg. golf, cricket, hockey and of course, the football, etc. are made of hygroscopic material like wood and leather.

When exposed to high relative humidity, these materials absorb moisture which leads to shrinkage or "bloating" of the product as well as increased microbial activity resulting in defective finished product. Thus, it is essential to keep humidity under control in the area where finished sports goods are manufactured as well as stored.

CRICKET BATS

Cricket bats are made from willow, which is a soft fibrous wood and is highly hygroscopic and tends to absorb moisture from the surrounding air during manufacturing and storage. The moisture tends to make the wood shrink/contract and expand when the moisture content changes with the relative humidity of the surrounding air, thus affecting the final quality of the bat.

THE DRY AIR SOLUTION FROM **Bry-Air**

The ideal way to maintain the required conditions for manufacturing and storage of sports equipment is to maintain humidity levels at less than 40%RH during the manufacturing process and storage.

The simplest and most cost effective way of controlling humidity is through Desiccant Dehumidification. Bry-Air Dehumidifiers ensures removal of excess moisture from the air inside the storage and packaging areas by continuously circulating dry air, thus maintaining relative humidity at less than 40%.

This prevents the material from regaining moisture, thereby arresting fungal growth and ensuring perfect quality of the finished goods.

Case Study:
M/s Mayor & Co.
(Established in 1961)

Location:
Jalandhar, Punjab
Industry:
Sports Goods

Mayor & Co. is one of the prestigious manufacturers and exporters of sports goods with a history of over 50 years. One of their major concerns was fungal growth on their footballs while shipping them to European countries. The football panels are made of PU and latex is used as an adhesive for pasting the cotton on the panels. The sewing of the panels was outsourced. During monsoon, the footballs were affected by fungal growth by the time they reached the clients, which led to rejection of the consignments. Called in to provide a solution the Airgineers from Bry-Air, discovered that there was fungal growth in the seams of the footballs due to uncontrolled levels of humidity during packaging. Mayor was advised to install a **Bry-Air Compact Dehumidifier** to maintain RH below 40% at a temperature of 27°C. It was also recommended an AC be installed for the comfort of the people working in the final packaging room. Mayor has been able to get rid of the fungal growth problem effectively.

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.

MOISTURE PROBLEMS IN INDOOR SWIMMING POOLS

WHY CONTROL HUMIDITY IN INDOOR SWIMMING POOLS?

Indoor swimming pools are very unique in their requirement of humidity control.

Most people associate indoor pools with high humidity, stuffy air and steamy windows and walls. Condensation not only creates an aesthetic, comfort and health problem but also results in structural damage to the building in the long term.

Relative humidity levels in an indoor swimming pool is likely to be much higher than normal as water evaporates from the surface of the pool.

Additionally, moisture is also drawn into the room from outdoor make-up air and from pool users or spectators. Also as the water in swimming pools is laden with chlorine or bromine disinfectants, when the water evaporates, the moisture is laden equally if not more with the chlorine or bromine. This highly corrosive moisture attacks almost everything it comes in contact with.

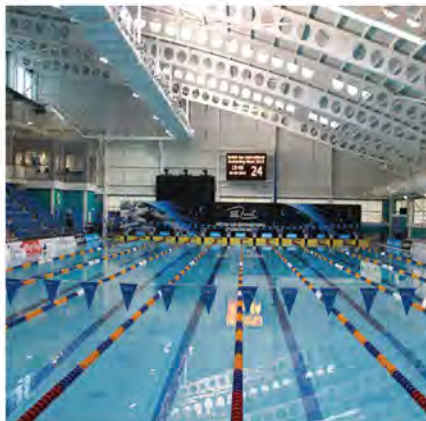
TYPICAL HUMIDITY PROBLEMS IN INDOOR SWIMMING POOLS

- Uncomfortable humidity around the pool
- Condensation on the vents / glass panels / AC grills
- Strong and persistent smell of chlorine
- Increased maintenance costs
- Deterioration of windows / rotting away of wood
- Mold and mildew growth, fogginess
- Peeling paint, deteriorating motor joints, bricks, etc
- Frequent accidents (slipping / falling) causing injuries because of wet floors.
- Costly interiors get corroded due to chlorine induced corrosion



Types of Indoor swimming pools

- Residential pool or personal pool
- Condominium or common residential building pool
- Recreational pool with jacuzzi
- Olympic or sports pool
- Pool with fountains / artificial waves



DRY AIR SOLUTION FROM **Bry-Air**

The dehumidifying equipment installed not only needs to remove the evaporated moisture, but also the moisture from the fresh air as well as the people.

The problems in an indoor pool humidity control arise, when there is a single system to control temperature and humidity. Once the temperature in the pool area is maintained, the cooling system stops as it is driven by a thermostat.

With the switching off of the cooling equipment, the moisture removal also stops and the humidity levels starts rising due to the constant evaporation from the pool surface



The Airgineers from Bry-Air have been able to solve the problem of excess moisture by installing Bry-Air Desiccant Dehumidifiers which ensures

- Reduced maintenance costs
- Optimum sanitary conditions
- Comfortable environment throughout the year
- No fogging, condensation, rusting and rotting
- No mold and mildew on the wall / duct surfaces
- Reduced injuries due to prevention of slipping and falling accidents caused by wet floors

Provide Comfortable Working Space with
with ARCTIC Industrial & Commercial
Ducted Air Cooling Systems / Solutions

ARCTIC EVAPORATIVE COOLERS



Range Available upto
1,70,000 CMH (1,00,000 CFM)

Key Advantages - Increase Profits

- Comfortable working environment
- Higher productivity
- Lower absenteeism
- Improved IAQ
- Improved staff morale
- Less rest pauses

Key Advantages - Savings

- Cool large areas economically
- No installation cost in spot cooler range
- Lower operating cost
- Consumes on an average 90% less power as compared to air-conditioners
- Easy maintenance



Automobile Industry



Malls



Offices



Warehouse



Paper Mills



Banquet Halls

CSR UPDATE

RECYCLING USED PAPER

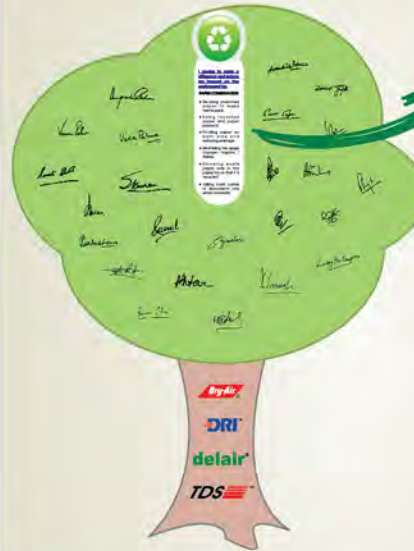
To promote a culture of reducing, reusing and recycling of paper in the organization, Bry-Air has initiated waste paper recycling. All waste and used paper is recycled and is used for making different stationery items, eg., writing pads, pens, copier paper, etc.



I pledge to make a difference and reduce my impact on the environment by:

PAPER CONSERVATION

- Re-using unwanted paper to make memo-pads
- Using recycled paper and paper products
- Printing paper on both side and reducing wastage
- Minimizing the usage of paper napkins/tissues
- Throwing waste paper only in the paper bin so that it is recycled
- Taking hard copies of documents only when necessary



DRI™ FOREST

DRI has sponsored planting of 500 fruit

trees in Bhata village, Rajasthan to benefit the villagers. These trees would be taken care of till they grow by DRI's project partner "SankalpTaru" and then handed over to the local farmers.



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