

**Bry-Air**

# dryfacts

...from BRY-AIR



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## Asahi . . .Impact. . . St. Gobain . . . bank on



## Dehumidifiers to ensure quality of safety glass !

- **Asahi India Safety Glass Ltd.**, a regular customer of Bry-Air, has recently installed Bry-Air Desiccant Dehumidifiers, models FLB-20000, FLB-15000 and FVB-4000 at their Chennai plant.
- **Impact Safety Glass Works** opted for Bry-Air's Desiccant Dehumidifier model FVM-2000 for their plant in Bangalore.
- **St. Gobain Glass India Ltd.**, preferred Bry-Air Desiccant Dehumidifiers, models FLB-20000, FLB-10000 and FVB-7600 for their Chennai plant.



### Pharma &

#### Over 2 decades of Association



The annual IPC conference and exhibition gives us a chance to catch up with old friends in the industry as well as make new

associates. This year was no different !

Bry-Air's booth at IPC, Kolkata attracted over 200 visitors in 3 days, many of them from Dhaka, Bangladesh. The evening get together allowed our team to catch up with friends in the industry.



**Ranbaxy recently installed 7 more Bry-Air dehumidifiers for its new projects near Chandigarh. Ranbaxy has over 100 Bry-Air dehumidifiers installed in all their plants including China.**

The current lot included Bry-Air Desiccant Dehumidifiers, models FLB-12500, FVB-2100, FVB-4000, FVB-1500 (2 nos.), FVB-3000 and FVB-5000(E).

### Big Turnout at Big 5

Bry-Air's booth and seminar received an overwhelming response. Bry-Air team at Dubai office will have a busy time ahead of them.



### More Shows Ahead !

Block these dates in your planner



7-9 Feb. 05  
Florida  
#2947



15-19 March 05  
Frankfurt, Germany  
#5.1A15



24-26 March 05  
Lahore, Pakistan  
#2&3



12-14 April 05  
Beijing, China  
#12-066

# The longer your customer stays in the super market, the more they are likely to buy.

So the 'in'vironment, i.e the store's temperature, humidity and air freshness including odour, is equally important if not more than the store's ambience, display, product range and service.

Humidity and not only temperature (as is commonly assumed) is usually the major cause of discomfort. By maintaining humidity, the store owner and the designer can create an environment that will encourage every customer to stay longer. This increases the store's ability to serve a customer's needs better and more profitable through more sales.

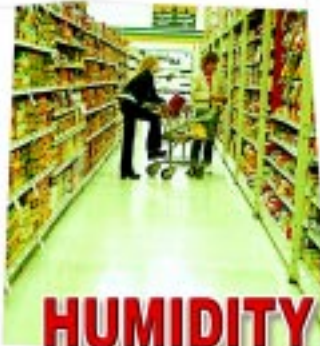
**Super markets also need very high ventilation.**

Super markets store large volumes of products which often

release undesirable vapors and odours that has to be diluted with fresh outdoor air to get rid of odours and also, avoid health problems. But outdoor air carries a very large moisture load.

**A dedicated dehumidifier helps to reduce this ventilation load**

Typically, store owners tend to assume that the cool air from the product display cases provide enough humidity control as the cooling coils of the refrigerated display cases operate at very low temperatures, which in turn results in condensation and thus, "dehumidification". However, this is a very energy-consuming process. A HVAC system with a dedicated dehumidification system can dehumidify the store air at a much lower cost. Supermarket HVAC systems ideally should be designed to make effective use of any waste cooling that leaks from the cases, and designed to dehumidify the air, so that excess moisture does not freeze on cooling coils or on the products.



## HUMIDITY Control . . .

## Key to Shopper staying Longer at your Super Markets



**Reducing Energy Cost can increase profitability !**

Energy costs often represent about the same percentage as sales in a typical supermarket. So, if all other costs are constant, every bit of savings in energy cost can represent a large contribution to profits than for other commercial buildings.

Supermarket owners thus should be far more concerned about excess humidity than other commercial building owners. High humidity increases operational costs for the refrigeration systems as well as the need and thus, cost of the anti-condensation heaters for the display cases.

**High humidity can lose you sales**

Condensation cause the glass of the closed-door display cases to fog, which interferes with product visibility. Also, excess frost on frozen products, makes the customer avoid the product and choose a different item, resulting in lost sales as well as increased inventory of these unsold items.

In addition to creating high operating costs, humidity indirectly affects the safety of the food. In a supermarket, high humidity is a problem. Low humidity is not.

**Dedicated Dehumidifier helps supermarkets to :**

- Reduce the amount of energy wasted by display cases.
- Reduce frost on product.
- Avoid condensation which fogs glass display doors.
- Reduce/ Avoid frequent or lengthy defrost cycles.



# 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.

## Humidity control keeps Telephone Exchanges break - down free



Telephone Exchanges in hotels, business centers, offices, etc houses sophisticated electronic hardware like EPABX systems, switch boards, computers, data transmitters and receivers necessary to complete the communication. As most of this equipment is placed and used inside buildings, it is expected that it will not be exposed to corrosive environment.

Most of these equipments use small voltage and low currents to perform their functions. A fine layer of rust is enough to cause operational failure (due to increased electrical resistance and decreased capacities which effects calibration and performance and sometimes even total operational failure).

So, the sensitive electronic components must be protected from weather factors to be able to operate reliably over long periods of time.

**Break down ? System failure ?  
... Moisture is the cause**

Moisture or water vapour is always present in the air. Water vapour condenses into water droplets on any surface cooler than the dew point of surrounding air.

Normally, most of the operating equipment rooms like telephone exchange rooms, and radar stations are air-conditioned. So, when the temperature of the surrounding



### Problem !!

**In telephone exchange rooms, condensation of moisture on electronic circuits leads to problems like cross talk, voice fade-out/distortion, noise disturbances and failure of EPABX systems and other electronic components.**



air rises due to a power shutdown or switching on or off the equipment or temporary shut down of the air conditioner, water vapor condenses and settles down on the circuits and PCBs. These microscopic electronic and electrical components are extremely heat and moisture sensitive and as these circuits do not have large areas, a small amount of corrosion can cause very large problems.

### **Bry-Air Solution !**

Reducing moisture from the air surrounding the telephone exchange or any such sensitive equipments protects it from moisture and thus from corrosion. Bry-Air dehumidifiers provide the simplest and most cost-effective methods of dehumidification. Bry-Air Dehumidifiers remove moisture from the air, through a process of continuous physical adsorption, and can effectively maintain the most stringent humidity conditions since they are capable of maintaining RH as low as 1% or lower at a constant level, regardless of ambient conditions.

### Recommendation

Condensation, can be eliminated if conditions inside Telephone Exchange rooms are maintained at  $45 \pm 5\% \text{ RH}$  at  $25^\circ\text{C}$ .



### **Bry-Air keeps Communication Links Failure Free at Army Signal Bases at :**

- 109 Engineers Regiment, India ● BSF, Meghalaya, India ● BSF, Shillong, India ● GE, Bakharakote, West Bengal, India
- GE, Barrakpore, West Bengal, India ● GE, Darjeeling, West Bengal, India ● GE, Gangtok, Sikkim, India
- GE, Kalimpong, West Bengal, India ● GE, Khaprail, West Bengal, India ● GE, Panagarh, West Bengal, India
- GE, Port William, Kolkata ● GE, Umrei, Assam, India

# ECO DRY Rotors "the heart" of Bry-Air Dehumidifiers

## Advantage with

- Adsorbent, Non-toxic and fully water washable.
- In-situ synthesized metal silicate dessiccant on an inert inorganic fibre substrate.
- Active desiccant 80% of the media weight, so as to ensure high performance and minimal heat carry-over.
- Rotor is non-flammable. The net organics in the honeycomb media less than 2%.

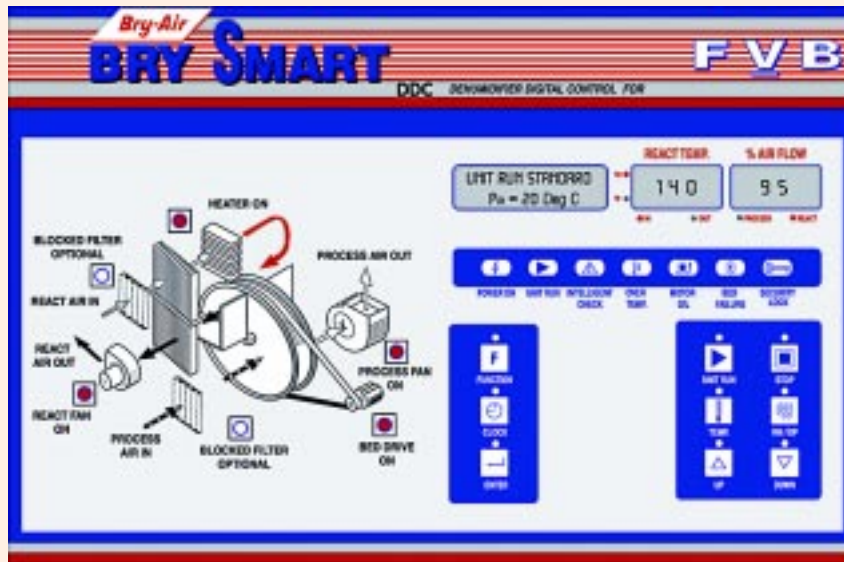


- Special edge hardened media surface to ensure a smooth surface and long life of both, media and the seal contacting it.
- Rotor perimeter flange extends media and seal life.
- Rotor incorporates robust internal structure with perimeter flange for industrial quality, durability and easy serviceability.

## Smart controls with Bry Smart

### Bry-Smart DDC Dehumidifier Digital Control

- Microprocessor based controller to supervise the operation, fault management along with display messaging of system parameters and faults.
- Continuous data log of system parameters and on line display of operating parameters.
- RS 232 serial data interface to retrieve stored data.
- RS 485 serial data interface for connection of remote system.
- Connectivity through LAN/telephone/modem and internet is possible.



- Start/stop facility to switch on/off the dehumidifier from a remote location.
- Remote fault warning output to activate alarm. Alpha numeric fault display.
- Programmable start/stop time setting to allow unattended scheduled operation.
- Intelligent re-start following a power failure. Battery backup of settings.
- Programmable security code to provide unauthorized mishandling.
- Intelligent power circuit switching to minimize voltage drops in unit supply system.
- Real time clock/calendar.



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