

dry facts

from **Bry-Air** www.bryair.com

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Bry-Air

wins many awards . . .

Bry-Air wins the National Award 2011, MSME

Bry-Air won the prestigious National Award 2011 for Research & Development (Medium Enterprise), 3rd Prize, instituted by Ministry of Micro, Small & Medium Enterprises (MSME).

The Awards ceremony was graced by the Hon'ble Shri Pranab Mukherjee, President of India at Vigyan Bhawan, New Delhi.

The Award was presented to Mr. Deepak Pahwa, Managing Director, Bry-Air by Shri K. H. Muniyappa, Hon'ble Minister, MSME.



Mr. Deepak Pahwa, Managing Director—Bry-Air, receiving the Award from Shri K. H. Muniyappa, Hon'ble Minister, MSME

Bry-Air wins the Star Performer Award, EEPC

Bry-Air won the prestigious Star Performer in EEPC INDIA National Awards for Export Excellence for Outstanding Export Performance during 2011-12.

Mr. Prem Sagar, Director, Bry-Air received the Award from Mr. Martin Kuba, Minister of Industry & Trade, Czech Republic.



Mr. Prem Sagar, Director – Bry-Air, receiving the award from Mr. Martin Kuba, Minister of Industry & Trade, Czech Republic.

Bry-Air UAE wins SAIF Excellence Award

Bry-Air UAE office won the prestigious SAIF Excellence Award. SAIF Zone provides excellent services to investors and has 13 international brands and over 150 nationalities under the umbrella of SAIF ZONE. Out of the 5500 plus companies, Bry-Air was awarded for Good business conduct and market leadership, exceptional financial performance, successful innovative strategies and proven record of operational efficiency.

Mr. Atul Pahune, Assistant VP, West Asia, Bry-Air received the award from Dr. Rashee Leem, Director General of Sharjah Airport Free Zone Authority.



Mr. Atul Pahune, Assistant VP—West Asia, Bry-Air, receiving the award from Dr. Rashee Leem, Director General of Sharjah Airport Free Zone Authority.

Controlling Ethylene level preserves freshness!



Ethylene gas (C₂H₄) is an odourless, colourless gas that exists in nature and is triggered at maturity in climacteric fruits. Ethylene is also known as the 'death or ripening hormone' and plays a regulatory role in many processes of plant growth and development.

Being a gas, Ethylene can permeate through barriers like corrugated cardboard, plastic containers and natural barriers: cell walls, plasma walls, etc. When Ethylene comes in contact with the Ethylene receptors, a reaction on the genetic level start, depending upon which stage of the life cycle the fruit is in.

Bad effects of Ethylene on various fruits and vegetables

| Fruits | Effect of Ethylene on fruits |
|---------------|------------------------------|
| Apples | Scald |
| Grapes | Mold |
| Bananas | Decay |
| Apricots | Decay |
| Pears | Browning |
| Passion Fruit | Shriveling and weight loss |
| Cherimoya | Rapid softening |



| Vegetables | Effect of Ethylene on vegetables |
|------------------------|----------------------------------|
| Potatoes | Sprouting |
| Onions/ Garlic | Odor |
| Carrots | Bitterness |
| Green leafy vegetables | Loss of color |
| Lettuce | Darkens and turns slimy |
| Cabbage | Leaf abscission |



| Advantages of Ethylene Control |
|---|
| <ul style="list-style-type: none"> Extends life cycle of the fruit/vegetable after plucking |
| <ul style="list-style-type: none"> Warehouse owners can easily preserve freshness and reduce spoilage of fruits and vegetables |
| <ul style="list-style-type: none"> They are able to meet increasing demands of non-seasonal fruits and vegetables |



Bry-Air Solution

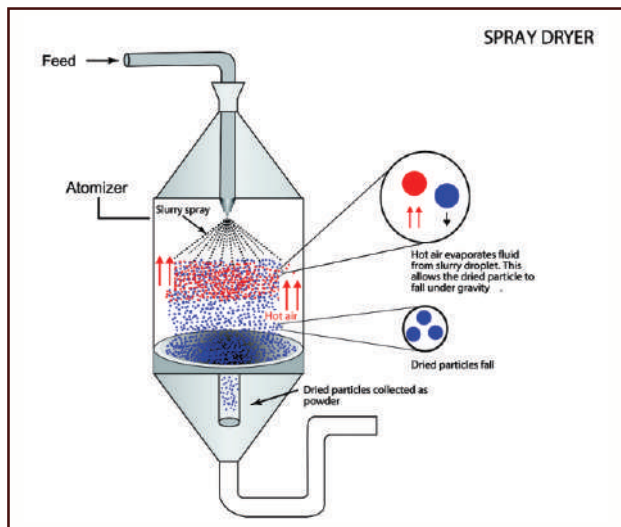
Ethylene removal is a natural process that does not affect the property of fruit or vegetable. Ethylene, that is released naturally can be continuously removed by Bry-Air Ethylene Scrubber (BES) through the process of adsorption and chemisorption.

Bry-Air Ethylene Scrubber (BES) extends shelf life of fruits and vegetables, minimizes loss due to decay, ensures off season availability and eliminates harmful preservation practices that use Nitrogen and Sulphur gas. Fruits and vegetables, thus retain their naturalness and can be ripened as per demand without bearing traces of toxic gases.

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.

Increase Productivity up to 30% without Increasing Capacity

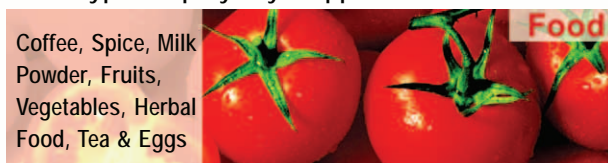


Bry-Air Solution

Bry-Air has specially developed high performance dehumidifiers for supplying precisely controlled, stable and consistent dehumidified air to the inlet of Spray Dryers. Providing stable and consistent inlet air enables higher performance and output from Spray Dryers and improves the quality of powder.

It reduces dependence on operator for a constant adjustment of parameters on account of varying outside environment. It also reduces energy bills of heater for heating the inlet air up to the required temperature. Dehumidifying the inlet air also increases its temperature, as a result of which the heater has to do less work to heat the air to the required temperature.

Some typical Spray Dryer applications:



Spray Dryer

Spray Dryers require large quantities of hot air for drying. The quality of the final product is affected by the quality of inlet air entering the dryer.

The Spray Dryer mixes heated air with an atomized (sprayed) liquid stream within a vessel (drying chamber) which leads to evaporation and produces free-flowing dry powder with a controlled average particle size. Thus, the inlet air has to be dry, free of contamination, foreign particles and odourless. However, since the ambient changes throughout 24 hours, 365 days a year, the humidity present in the air, entering the Spray Dryer is not constant.

Uncontrolled humidity results in:

- ◆ Increased drying cycle time
- ◆ Inconsistent powder quality
- ◆ Variation in throughput
- ◆ Higher downtime due to sticking of material on Spray Dryer walls



Benefits of Inlet Air Dehumidification

- Stable & consistent drying conditions throughout the year with no effect of outside conditions
- Reduced dependence on operator for constant monitoring and parameter adjustment
- Increased efficiency and throughput-up to 30% in some cases
- Improved rate of solution by avoidance of the lumping caused by fine particles

Bry-Air Celebrates the Earth Day at Sanjay Van

Bry-Air celebrated the Earth Day in partnership with WWN (Working With Nature) and DDA at Sanjay Van on April 22, 2013. The Chief Guest, Lt. Governor Shri Tejendra Khanna released the new brochure on Sanjay Van titled "Restoring Sanjay Van-Making of an Aravli City Forest", developed by Bry-Air. Around 300 students from different schools



participated in the event. Activities such as tree plantation, forest walk, cleaning of forest were performed by school children. Students, also



brought posters developed on "Save Earth and Save Environment" and displayed at Sanjay Van. Drawing competition on "Save The Environment" was also held and more than 100 students participated in drawing competition.

Update of Dr. Mathra Das Pahwa Vision Outreach Program

Eye Camps: 20 Registrations: 7022 Spectacles: 3661 Medicines: 4784 Cataract Operations: 510

Bry-Air supports play on "Ali Baba Aur Chaalis Chor" performed by Bry-Air Pathshala children

The timeless Arabian folk tale "Ali Baba Aur Chaalis Chor" was staged on 5th of May, 2013 at EPICENTRE GURGAON by the children of Literacy India and Bry-Air Pathshala. The program was inaugurated with a welcome speech by Mr. Shrivardhan Trivedi & Doliram. Mr. Trivedi, an NSD expert, is a renowned TV anchor in Sansani (ABP News).

The show was a mixture of humor, love and affection, victory along with anger, terror, fear and greed. The children played an excellent role and improvised their characters efficiently. The technical parts of play-light, sound and music synchronization strongly supported the success of the production.

After the Show, Literacy India felicitated Mrs. Anandita Pahwa, Head-CSR Initiatives and Ms. Sonali Dutta-VP, Corporate affairs from Bry-Air for their consistent support to Bry-Air Pathshala and Literacy India with a Certificate of Appreciation.



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