



ECOPLAST™

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...News from



New COMBO Dryer from Bry-Air®

The Dryer Company

Keeping with its philosophy to bring you the equipment you need, Bry-Air has redesigned its COMBO Dryer based on your feedback and inputs. The new COMBO dryer will be displayed at "Plastasia 2004". Visit our booth at Plastasia to see a demo.



Bry-Air® The Dryer Company...



...backed by 3 decades of Industry experience, world wide

Arctic India Sales started out in 1979 representing Bry-Air Inc. In 1981, Bry-Air India (now Bry-Air Asia), a joint venture was promoted with Bry-Air Inc., a more than 50 years old company specializing in Dehumidifiers and Plastics Dryers.

The Plastics Dehumidifying Dryer was introduced in the region in 1984.

A Dryer for all your Drying needs

Years of accumulated industry experience has given Bry-Air, the strength to design and manufacture resin dryers, to meet the most stringent drying conditions needed for engineering plastics. Apart from its specialization in drying, Bry-Air has evolved to support the Plastics industry as a "Single Source" for plastics auxiliaries.

Bry-Air ensures that you have a competitive advantage over your competition, as drying is a necessary criteria for quality processing of plastics, particularly with the increased usage of thermoplastics/engineering polymers/resins.

Bry-Air gives you flexibility of choice available under one roof to support all your drying as well as other auxiliaries needs.

Mark these dates in your calendar to visit the Bry-Air booths at:

Plastasia - 2004

Palace Grounds, Bangalore
Feb 26-29 2004, On display at our booth # D47-D54

- COMBO Dehumidifying drying Package for Hygroscopic Resins
- delair Heatless Adsorption Type Compressed Air Dryers
- delair Refrigeration Type Compressed Air Dryers
- Hopper (Hot Air) Dryer for Non-Hygroscopic Resins



Thailand
March 17-20 2004, On display at T PLAS BT

- Dehumidifying Plastic Dryers - BPD Series
- Mould Dehumidification System - MDS Series

Plastics in Automotives

Plastic is estimated to consume over 8% of total of engineering plastics manufactured in the world.

The Automobile industry is growing exponentially.

The percentage of plastics in a car is over 9% and is expected to increase to almost 15% in the new generation cars.

What makes plastics the most preferred material to the automotive engineers and designers

- + ECONOMY
- + WEIGHT REDUCTION
- + STYLING POTENTIAL
- + FUNCTIONAL DESIGN

- + NEW EFFECTS
- + REDUCED MAINTENANCE
- + CORROSION AND CHEMICAL RESISTANCE

Bry-Air® in PLASTICS

Drying is the necessary criteria for quality processing of engineering plastics, i.e the plastics used in automotives.

Engineering polymers / resins like Nylon, ABS, PET, Polycarbonate, Polysulphonate etc., which have a large usage in the automobiles have an extremely high affinity for moisture and need to be dried thoroughly and properly to ensure quality finish of final product.

Improper and inadequate drying can result in loss of structural, impact strength and tensile strength, cosmetic defects and many other moisture related defects and deficiencies. In fact the very characteristics for which plastics are preferred.

These resins absorb moisture during manufacturing, transportation and when in storage prior to processing. It can be safely assumed that all batches of resins potentially contain surplus/excessive moisture, regardless of the circumstances.

Bry-Air Dryers have been providing zero defect drying of resins before the components are processed thus ensuring the quality of final components.

Other Products from the group which find a wide application in the Plastics:



+ Compressed Air Dryers for plant air.

+ Test Chambers for testing Automobile components.



Rinder OPTS FOR BRY-AIR TO ENSURE QUALITY OF IT'S AUTOMOTIVE LIGHTS

Rinder, an ISO/TS 16949:2002 company, is a world leader in designing and manufacturing of automotive lights. Rinder supplies automotive lights to almost all leading manufacturers of Two Wheelers and Four Wheelers in the world.

Their requirement for drying Nylon, Polycarbonate, ABS and Acrylic is very stringent. They were unable to get the quality required with Twin Column Dryers. Rinder, then, contacted Bry-Air for a solution. Bry-Air provided them with Centralised Drying System with a single dryer along with six hoppers combination. Since its installation in Sept. 2003, Rinder is extremely satisfied with the results.



Drying and Conveying System for Rinder





Partners in their progress

VMI Plastics – A “PET” Success Story

And a Bry-Air Dryer User



VMI is one of Bry-Air's prestigious customers and we take the liberty of quoting from their Corporate Brochure to make our point.

“Keeping pace with tomorrow to stay ahead today has been VMI PLASTICS endeavor. The company is a unit of Vidya Metal Mfg. Company Pvt. Ltd., which is one of the country's **leading manufacturers of hi-quality PET, POLYCARBONATE bottles for bulk packaging of drinking water.**

Since inception in 2000 VMI PLASTICS has taken giant strides.

No compromise is made on quality. The company firmly believes in manufacturing impeccable products, which are in a class by themselves.

Latest sophisticated technology the world offers and rigid quality control at all stages of production goes into making zero tolerance bottles. The plants imported computer controlled manufacturing process ensures excellence. Last but not the least at VMI Plastic, total customer satisfaction, competitive prices and delivery on time bound schedules is given top priority. That's precisely **why more and more discerning clients from around the country are standardizing on our bottles.**”

And that's precisely why VMI has installed 2 nos. Bry-Air Plastic BPD 200 Dryers along with Hoppers Model HP40 with their moulding machines (procured from EKOU Industry Co. Ltd., China) to ensure the quality of their bottles.

Drying PET....

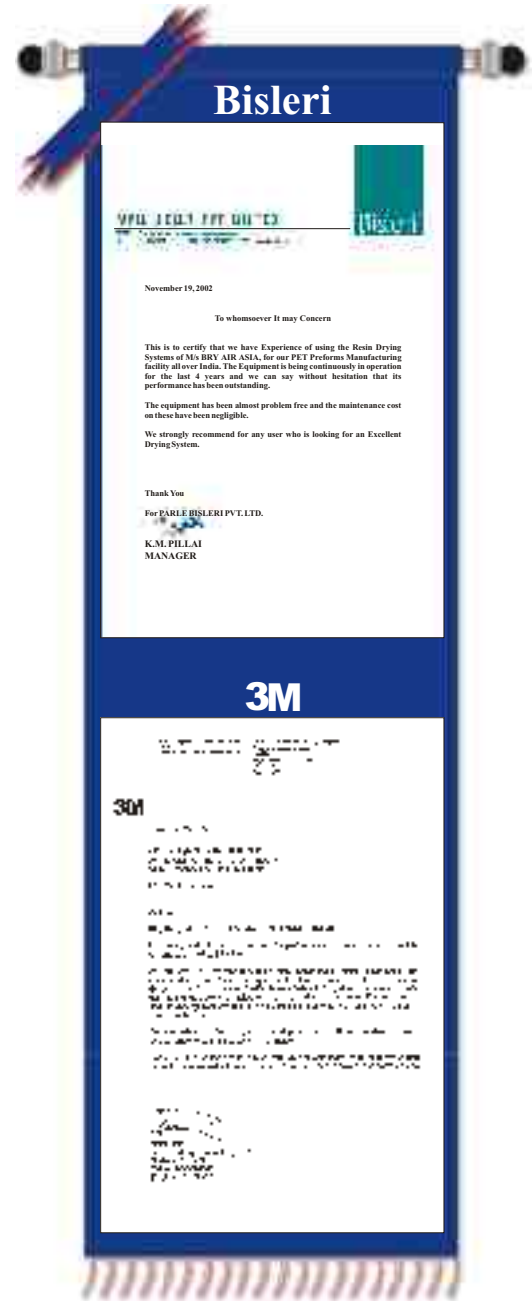
PET resins are highly hygroscopic, i.e. they absorb moisture very easily and comparatively more quickly than other plastic resins. **This affinity of PET resin to moisture makes it one of the most difficult resins to dry. Even traces of moisture present in the resin can result in splay, internal bubbles, loss of clarity and strength in the finished part/product.**

Hence, proper drying of PET resins is the first critical step towards the final required quantity of the molded product.

Drying PET requires stringent control over dewpoint, drying temperature, residence time and air flows.

The Bry-Air Plastics Dryer

Drawing on its long experience in drying various types of plastics resins, specially PET, Bry-Air's BPD series Plastics Dehumidifying Dryer is designed to ensure the strict moisture control required to successfully process PET resin to the moulding machine at a moisture content of less than 0.003%.



Write to us for a detailed article on why must you insist on "Dryers guarantying -40°C dewpoint for PET" and Would you like to have a Seminar at your premises on "Importance of Proper Plastics Drying in Processing of Engineering Plastics" for your engineers? For further details e-mail us: advt@pahwa.com.

PRODUCT REVIEW

Bry-Air® COMBO *New*

Compact, Portable Dehumidifying Drying Package

The new improved Bry-Air Ecodry COMBO series packages a small Dehumidifying Dryer with a drying Hopper and Twin Loader on a single skid to allow the small processor, the flexibility of portability, along with quality drying.

The multifunctional COMBO has been designed to meet the need of processors requiring quality drying of smaller quantities of hygroscopic plastics resins. Mounted on castors, the COMBO dryer is portable and easy to handle and maintain.

It assures proper drying of the toughest of hygroscopic resins.

Powder coated and CNC fabricated, the COMBO Series is available in a range of three (3) models with Drying capacities ranging from 9 kg/hr to 45 kg/hr which allows easy handling.

Advantages of COMBO Series (Dehumidifying Dryer plus Hopper plus Twin Loader)

- + Compact and Portable
- + Easy to read operation status.
- + Microprocessor Based PID Controller.
- + Material over drying safety
- + -40°C or lower dewpoint air



Products from

PAHWA
ENTERPRISES

EGGPLAST™



Bry-Air®



EGGFRESH®



EGGCOOL™



delair



At the heart of perfect moulding

Bry-Air®

Plastics Dryers



Hopper (Hot Air) Dryer



COMBO Dryer Package



Centralized Drying System



Dehumidifying Dryer



Large Volume Dryer

For more information on any product application covered in the issue, please contact :

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