Bry-Air®

ECOPLAST™

Drying • Conveying • Blending

Now, Measure Pellet Moisture in the Hopper, in Real Time with

Swiss made

BRYSCAN™

Moisture Analyzer In-Line

BRYSCAN™ a path breaking innovation from Bry-Air

Moisture control is the most critical process of the plastics products manufacturing industry. Moulders need to first ensure the level of moisture present in the plastic resins before any further processing of plastic pellets.

Most moulders dry their resins by blowing hot air, or dry air of a specified temperature and dew point (typically -40° C) through a hopper full of pellets for a specified number of hours and hope that does the job, which is true in most cases, as experience has suggested.

To go a step further, dryer manufacturers offer systems for measuring the changes in temperature or dew-point of the air as it passes through the drying hopper.

Dew point is basically the measurement of the humidity in the air and it does not measure the amount of moisture in the pellet. Dew point measurement may correlate with a change in moisture content of the pellets, but do not measure either the initial moisture or final absolute moisture level of the pellet.

The problem is that the starting moisture content of the resin is usually not the same. The offline method to measure the final moisture content of pellet is a lengthy and costly process.

So, as a result, many people over dry pellets because they simply don't know if the pellet is dry until it's too late.

This results in wasted energy, over dried resins and in some cases rejected parts or insufficient drying that can lead to property degradation and premature failure, or at least cosmetic flaws.

Now, it's time to stop focusing on the temperature and dew point of the drying air and pay attention to actual moisture in the pellets. With BRYSCAN™ 100 In-Line moisture sensor, **a path breaking innovation and product development by Bry-Air Prokon in Switzerland**, a 100% subsidiary of Bry-Air (Asia), moulders can now determine the core moisture content independent of the density, colour and surface structure of the measured material in real time, as the pellets exit the bottom of the drying hopper.

Bry-Air has recently introduced its BRYSCAN™ range of **In-Line Moisture Analyzers**. BRYSCAN™ sensors are designed to meet the most demanding requirements of the plastics processing industry. Bryscan is the solution for the real time accurate measurement of moisture present in resins and manufacturing environment.

For more information on this product, please visit our website at www.bryair.com or write to us at bryairmarketing@pahwa.com

DRYING, CONVEYING AND BLENDING SOLUTIONS FOR MEDICAL PLASTICS

Manufacturing Medical Plastics is a challenging task, not only because they vary widely in their shapes, size and complexity but also because of their ultra sensitive nature of use and application. The category, includes medical disposable items and simple medical plastics devices such as thermometers, catherers, syringes, blood bags, tongue depressors and gloves. There is absolutely no room for manufacturing defects in Medical Plastics.

Typical plastic materials used for making medical plastics include Acrylonitrile-Butadiene-Styrene (ABS), Nylon (PA), Polycarbonate (PC), Polypropylene (PP), Polystyrene (GPPS) and Polyolefins (LDPE, HDPE, LLDPE, PP) and Polyster (PET, PBT).

Manufacturing Processes for Making Medical Plastics

Prime processes for manufacturing Medical Devices using plastic are, Extrusion Blow Moulding, Injection Moulding and Injection Stretch Blow Moulding. Extrusion is a continuous process, enabling production of long length of a product. However, continuous extrusions are often cut in application lengths. Injection Moulding on the other hand is a fast process used to produce large number of identical items.

Moisture Problem - Plastic resins are hygroscopic in nature and absorb moisture from their surroundings. Improper drying of resins can cause defects in the product like low tensile strength and impact resistance, surface cracking, internal cracking, surface lines, bubbles, silver streaking etc. leading to rejection.

Mould Sweating - The Injection Moulding process involves injection of plastic melt into the mould and cooling the melt in the mould to take the desired shape. Chilled water used for cooling the plastic melts lead to formation of water droplets on the mould surface. Water droplets tend to drip on the machine bed and seep into the mould, which causes rusting and leads to shape defects in end product.

Silver Streaking

Conveying Problem - Injection moulding being a fast process and extrusion being a continuous process, requires continuous feed of blended resins into the processing machines. Employing labor to handle resins manually is open to human errors like spillage of resins and delay in changeover of material. Feeding material continuously requires constant monitoring which becomes a tedious task manually, over longer period of time.

Bubble Defect

Bry-Air Hot Air Dryers and Honeycomb Resin Dryers solves the moisture problem in plastic resins. Bry-Air Mould Dehumidification Systems solve the Mould Sweating Problem and Bry-Air Centralized Conveying System solves conveying Problems.

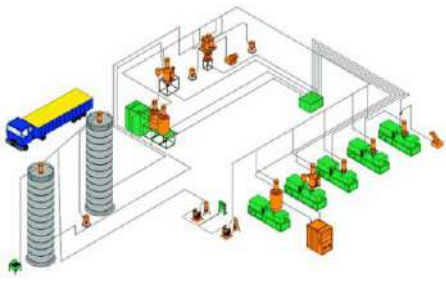
To know more about the Bry-Air solutions, contact us at bryairmarketing@pahwa.com

Honeycomb Resin Dryers
BHD series

Hot Air Dryers

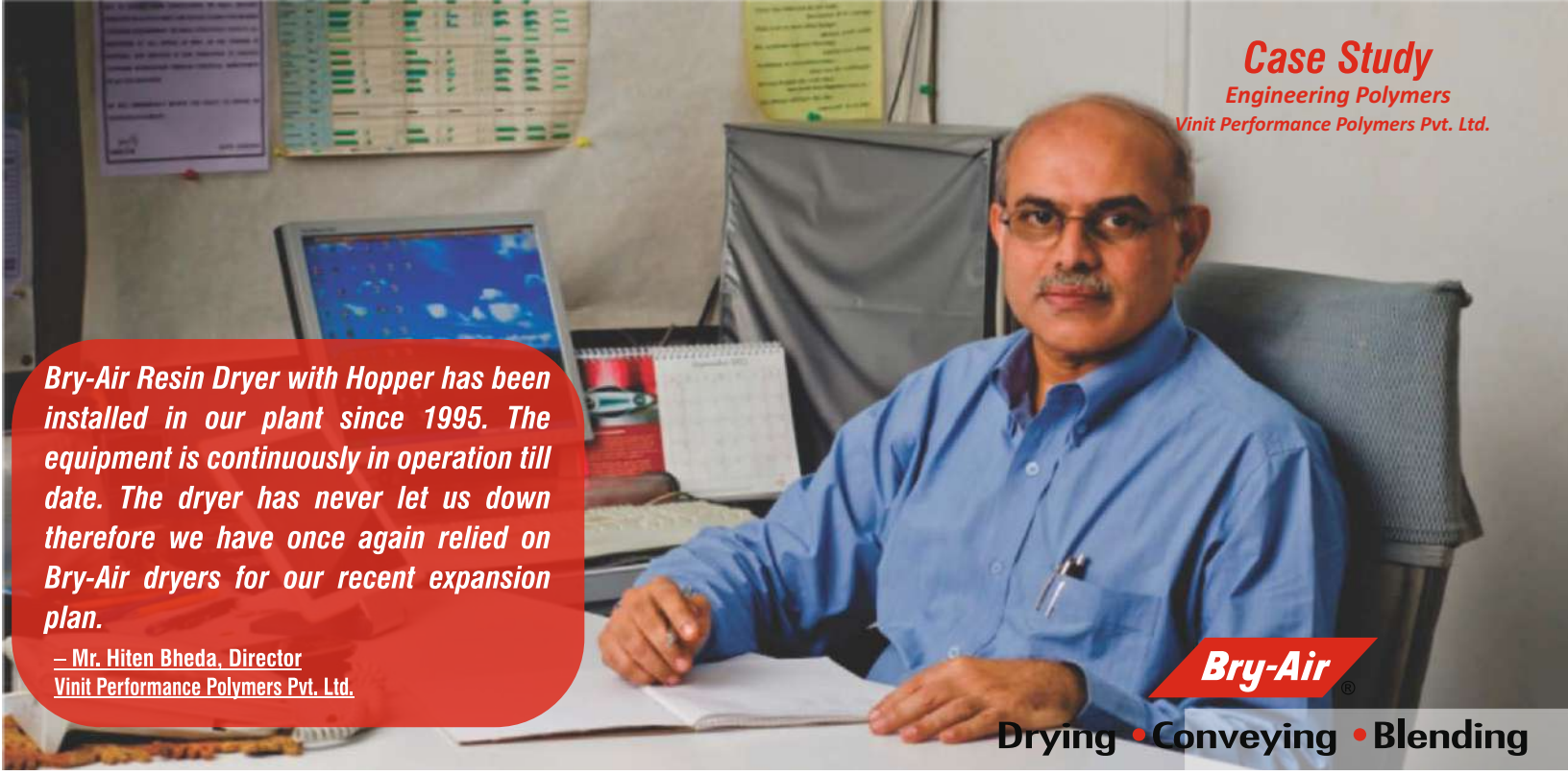
Auto Loaders

Mould Dehumidification Systems
MDS series



Centralized Conveying System

Bry-Air® A Perfect Partner to Ensure Quality End Product



Bry-Air prides itself in providing superior products with reliable after sales support to all its clients. That's why our clients choose us over the other options available in the market. One such client is Vinit Performance Polymers Pvt. Ltd. (VPPPL), they recently placed their order with us for dehumidifier at their plastics processing plant in Mumbai. VPPPL specializes in conversion of engineering plastics into moulded plastic components which is used for demanding application environments comprising of load, friction, wear, thermal and electrical exposure and corrosive gases. Their products are extensively used by manufacturing industry, including Machine Building, Textile, Transportation, Automobile, Food, Pharma, Medical, Energy and Defence etc.

The Problem

Vinit Performance Polymers team discovered that there was a deterioration in the quality of their products because of humidity and moisture content in plastic resins, used for making the products. They decided to go for dehumidifying dryer. On screening the market, with the objective of sourcing the best equipment among available options, they found Bry-Air to be the most suitable with good local support from technically competent team. Their decision was, to a larger extent, influenced by their earlier experience of Bry-Air product performance and reliability of service. Bry-Air has been associated with VPPPL since 1995.

"Our Mumbai operation is located in a geographic area with high humidity for almost seven to eight months in a year. Raw materials, that we use, are either hygroscopic or have moisture content not suitable for achieving desirable mechanical properties in the extruded stock shapes", said Mr. Hiten Bheda, who is US trained engineer having over two decades of experience in processing engineering plastics.

The Bry-Air Solution

Bry-Air has installed New Honeycomb Resin Dryers to control dew point and temperature at VPPPL. These dryers are capable of removing moisture from the polymer in granular form. Bry-Air Resin Dryers incorporate the 'BryWheel' desiccant rotor specially crafted for very low dew point (up to - 45 C). The Honeycomb technology has helped VPPPL in energy saving and reduction in rejection rate.

Bry-Air Dryer working since 1995

Bry-Air Honeycomb Resin Dryer recently installed

REACHING OUT THROUGH SEMINARS

Gurgaon and Haridwar are two of the major industrial hubs in India. The Airgineers at Bry-Air recently conducted a technical seminar in Gurgaon and Haridwar.

Both the events were well received by the plastic industry players in respective regions. The decent turnout at the events was very encouraging and spoke volumes about the goodwill enjoyed by Bry-Air among the plastic industry players in both the regions.

The Airgineers explained to the attendees about the latest technology in plastic processing and benefits of implementing the same at their facilities. The seminar participants were mostly the production supervisors and operations managers, who also shared their quality and productivity challenges during the interactive sessions.

The attendees appreciated the efforts of Bry-Air team to spread the awareness and knowledge on techniques of improving their efficiency and productivity while ensuring high quality manufacturing of plastic products.

Most of the attendees further commented that they would look forward to similar seminars in future.

GURGAON

HARIDWAR

REACHING OUT THROUGH TRADE SHOWS

Bry-Air® SHOWCASED THEIR PRODUCT AT IPLEX, BENGALURU

Bry-Air participated in recently concluded international plastics exhibition in Bengaluru.

The show was visited by plastic processing companies across India. The Bry-Air team was delighted to find many known customers and made new contacts too.

The Bry-Air team demonstrated the benefits of Plastics Auxiliary Equipments to the visitors.

Mark Your Calander for Our Upcoming Shows

Indplas '15
7th INTERNATIONAL EXHIBITION ON PLASTICS
November 27th - 30th, 2015
Science City Ground, Kolkata, India

6th PLAST SHOW
VAPI 2015
04-07 December 2015
Booth No: 23, VIA, Vapi Industrial Association Ground, Vapi, Gujarat

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