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**The Importance of
Plastic Resin Drying -
at the Heart of it All**

Now audible 

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The Importance of Plastic Resin Drying - at the Heart of it All

Plastics as a material is used in varied industries and probably, every industry would be using plastics in some form or the other. It is applied in a growing range of applications, be it automobile, consumer durable, healthcare, electrical and electronics, building & construction...the list is long. From packaging to manufacturing, it's been used widely because of its easy availability, convenience and flexibility. There are several elements like lightweight, durability, cost-effectiveness, resistance, etc. that make it an invaluable part in the multiple processes.

Though plastics are known as an end product that are easily available in the market, the processing requires a lot of factors that needs to be placed rightly. For example, during the processing the material requires the ideal ambient condition to deliver quality product. In plastic manufacturing, drying is the necessary criterion for quality processing. Improper and inadequate drying can result in loss of structure, impacts the strength, shape and final product. It is one of the most critical steps that cannot be overlooked at any given cost.

Drying plastic resin is used to minimize the complications that can cause the moisture around plastic material because it affects the quality. Drying requires stringent control over - dew point, drying temperature, residence time and flows. With the help of drying, it maintains the performance and prevents hydrolysis.

Drying a plastic resin is an art and science in itself. Bry-Air knows drying best, and it has continuously partnered the plastics industry with the latest and most advanced drying solutions. It's diversified & vast accumulated experience has led to many a firsts' to its credit. **Deep understanding of the various resins drying time &**

temperatures and new day requirements of the plastic processors has helped Bry-Air gain the reputation of the most reliable drying solution partner.

Waterless drying is one such mechanism that requires no water. It is the process that uses no water and requires less energy than traditional methods. Unlike traditional methods, waterless drying eliminates the use of Air to Air Heat Exchanger, Water Fed Cooler, Chilling and Cooling Tower and saves the additional cost. It minimises the effort, and gives result instantly.

Waterless Drying is an advanced state of technology because it is developed to meet the new age drying needs. The dryer provides great mobility, portability and eradicate the hassles of cooling connection water hoses and dripping/leakage of condensed water. **It is ideal for processors who want energy-efficient solutions with convenience and portability.**

Dew point plays a very critical role in creating a lower vapour pressure around the surface of the resin. This lower vapour pressure forces the moisture in the molecular chain of the resin to dissipate out to its surface. To solve the problem to

a great extent, **Bry-Air has developed the world's first real waterless plastic dryer that provides savings up to 40% of energy cost, yet delivering (-) 40°C constantly.**

The heart of this dryer has a special desiccant rotor which delivers < (-) 40°C even at inlet conditions of 70°C to 80°C. It is a breakthrough in plastic



The Importance of Resin Drying Plastic Drying - at the Heart of it All



drying technology.



Bry-Air Green DrySmart (GDS) series is designed on the 'art of drying' and has taken it to the next level with its waterless drying capabilities. The energy-efficient, hassle-free desiccant dryer not only eliminates the cooling water requirement but also provides the best performance with greater mobility.

This super-intelligent series comes with rotor technology that reduces the utility and installation cost. In this there is no requirement of heat exchanger for pre-

cooling, making it a revolutionary solution offering.

The GDS comes embedded with honeycomb rotor technology. It helps reduce the OPEX and other CAPEX costs leading to significant savings which is difficult to derive from other dryers currently available in the market. The return on investment vis-a-vis a standard dryer is faster, and hence, the Bry-Air Green DrySmart is truly an innovative product to cater to the needs of the next generation plastic material processors.

www.bryair.com

Bry-Air®

Best-in-next-class Drying Solutions for Plastics

Bry-Air knows Drying best



REAL **W**ATERLESS PLASTIC DRYER

*Savings up to 40% of energy cost,
yet delivers (-)40°C constantly*



Green DrySmart™ GDS Series

Head and Shoulder above the Rest
Eliminates the need for Chiller or
Heat Exchanger and its Pipelines

Bry-Air Knows Drying Best

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