

**Bry-Air**

# dry facts

...from BRY-AIR

INAUGURAL ISSUE

VOL. 1. No.1

**W - E - L - C - O - M - E**

**Welcome to a world free from moisture and humidity problems...**

**to a world of dry air... dry facts**

**SELAMAT DATANG**



We are pleased to present to you the inaugural issue of Dry Facts from Bry-Air. Dry Facts will take you through the ever expanding world of Bry-Air and its relentless fight against moisture in the air, to provide a better environment for your products and machines. Every quarter, it will feature dry air stories, new application areas of dry air and new product introductions from Bry-Air.

Our endeavour has always been to keep in close contact with our customers. Dry Facts from Bry-Air, S.E. Asia edition, is yet another step towards keeping in touch with our customers, in the ASEAN region.

We invite you to send us your suggestions and contribute interesting write-ups to make Dry Facts more informative and meaningful.

**BRY-AIR MALAYSIA**

**Ready to take off !**

Bry-Air Malaysia is the newest member of the Bry-Air group. Bry-Air is a multilocal, multiproduct company with plants in USA, Holland, India and now in Malaysia, manufacturing the best equipment in the field of dehumidification and air drying.

Bry-Air is already a familiar name in the ASEAN market, with a number of installations already in operation in Malaysia and the neighbouring countries. Thanks to the expanding business in the region, a manufacturing plant is being set up to support the sales office in Kuala Lumpur.

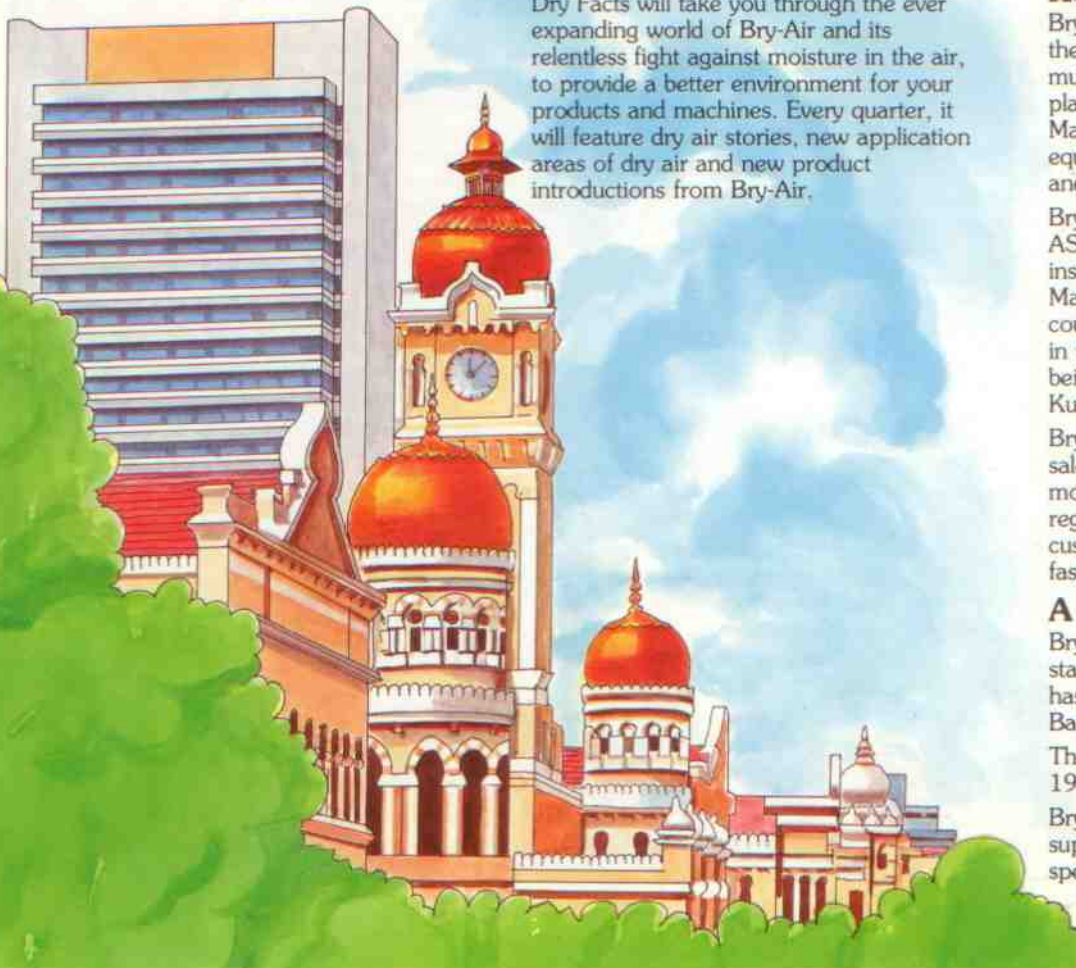
Bry-Air's presence in Malaysia will support sales and service in the ASEAN region more effectively. Growing business in the region warrants quicker support for the customer for application engineering and faster deliveries.

**A Great Start**

Bry-Air Malaysia has been granted 'pioneer status' by the Malaysian government and has been allotted land in the prestigious Bangi Industrial area for its plant.

The venture is to go on stream by May 1991.

Bry-Air Malaysia is all set for a great start, supported by its team of 'Airengineers', specialists in the field of air engineering.





# # 1 IN DEHUMIDIFICATION

*Bry-Air has over 40 years of experience in dehumidification and can provide complete engineered solutions to all environmental control problems.*

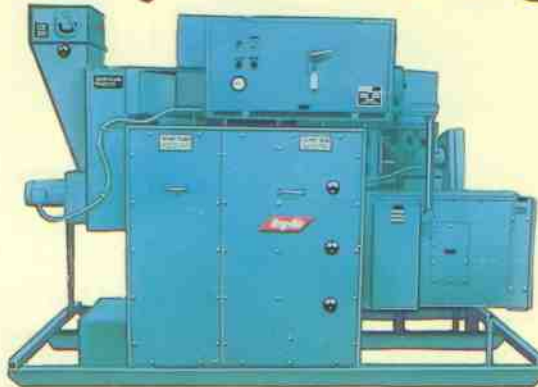
## No space is too small

Small Bry-Air dehumidifiers are available in 50, 150 and 300 cfm models. Their compact size and excellent dehumidification capabilities make them well suited to industrial applications in smaller areas. These units are ideal for laboratories, storage rooms, packaging and processing areas or other areas where humidity control is essential and space is limited.



**BRY-AIR COMPACT**

## No job is too big



**BRY-AIR MVB**

The new generation, state-of-the-art MVB dehumidifiers double air drying efficiency at half the operating cost.

The dehumidification equipment incorporates 'modular vertical beds' located on a rotating carousel, and is a revolutionary new concept in desiccant dehumidification. The Bry-Air MVB comes

in 15 standard models and can maintain rh down to 1%, continuously. The equipment can be packaged with precool, after cool, preheat, after heat and heat recovery options to give you the most reliable and economical solution to humidity and often temperature control.

## DRY AIR APPLICATIONS

*The uses of dry air are as varied as air itself. Humidity is a constant threat to production efficiency, product quality, effective processing and packaging process. Here are some major application areas where dehumidification is essential, and often critical.*

### Corrosion Control

Rust begins at 40. Metal components and equipment tend to rust and corrode during storage, assembly or plant shut down due to moisture in the air. Bry-Air dehumidifiers effectively control humidity below 40%, protecting them from corrosion.

### Defence

Rust, mold, mildew, warping, etc. cause irreparable damage to equipment and machinery, arms and ammunition,

impairing their availability and reliability. Moisture is the main cause of all this visible damage. Bry-Air dehumidifiers provide the best protection against humidity under all temperature conditions.

### Electronics

High technology often entails working under very precisely controlled environmental conditions. An efficient, dependable, and versatile dehumidification system becomes the key in its success. Bry-Air Dehumidifiers have been applied in the manufacture, process, storage and operation of electronic and electrical components.

### Food -- Drying, Processing, Packaging, Storage

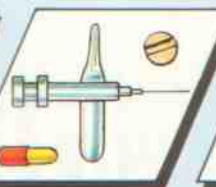
High humidity can make a meal of your products. Bry-Air Dehumidifiers speed up drying at low temperatures, allow free flow of powdery foods, prevent organic corrosion in breweries, distilleries and keep snack food fresh and crisp.

### Pharmaceuticals

High moisture levels cause production problems with hygroscopic and other powders during tablet punching, capsule vial filling, tablet coating, strip packaging, storage of chemicals, etc. Bry-Air offers the simplest, most effective method of solving production headaches through dehumidification.

### Seed Drying and Seed Storage

High moisture content in seeds during storage leads to loss in viability, discoloration, toxin production, and growth of fungi. It is essential to lower the moisture content to about 5% in order to preserve seeds and prevent deterioration. Drying of seeds at elevated temperature destroys their germination potential. Bry-Air seed dryers based on the state-of-the-art technology dry seeds to the required level in 4 to 6 hours without affecting their quality.





## WHEN MOISTURE IS TORTURE

*In this column we will share with you regularly our experience on major application areas where use of dehumidification equipment is both extensive and essential.*

### Soft Gelatine Capsules A hard manufacturing task



Gelatine is used as a raw material in the manufacture of capsules and photographic films, and as an important ingredient in many food preparations.

By nature, Gelatine is moisture and temperature sensitive. Hence, the manufacture of gelatine and its products necessitates incorporating the latest in drying technology to give a quality final product.

#### The Manufacturing Process

Warm liquid gelatine is spread over a rotating steel drum to form a thin tacky band which is then automatically formed into capsules.

The temperature, relative humidity and velocity of the air must be accurately controlled for effective and rapid drying of the gelatine. If the temperature is low, the gelatine band becomes brittle and snaps. If the temperature and humidity are too high, or air velocity too low, the gelatine will not solidify into a band.

From the capsulating machines, the soft moist capsules are transferred to drying chambers. Here the moisture from the gelatine shell must be removed gradually to prevent superficial hardening. Drying at elevated temperatures impairs product quality.

#### Perfect Environment

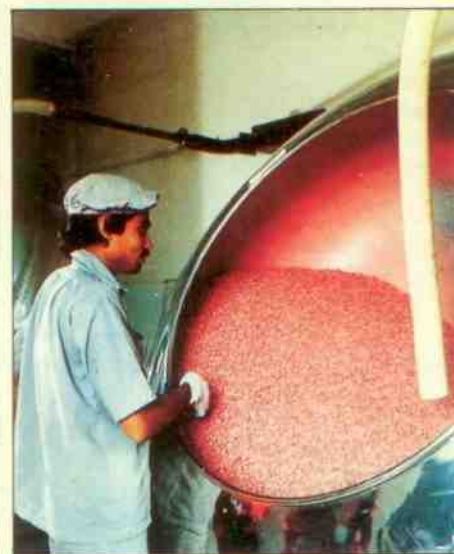
For achieving the controlled air requirement as indicated above, refrigeration equipment alone becomes uneconomical, impractical, cumbersome to design, operate and maintain; on the other hand the desiccant type dehumidifiers in combination with refrigeration offer a direct, simple and economic solution to controlling both temperature and humidity to any low level.

Bry-Air dehumidifiers, based on the principle of continuous physical adsorption, are being widely used the world over in the manufacture of gelatine based products.

### Prescription for better products



Pharmaceutical industries all over the world rank among the best customers of Bry-Air Dehumidifiers. These dehumidifiers in conjunction with temperature control provide the right environment for various other applications like **tablet coating, strip packaging, Penicillin manufacturing, effervescent tablet manufacturing etc.** For your specific needs write to Bry-Air Malaysia, for our engineered solution to your problems.





# AIR ENGINEERING AT ITS BEST

in expertise, experience, network and range

## The Expertise

Bry-Air is an application air engineering company specialising in

- Air Drying
- Air Separation
- Air Treatment

Bry-Air engineers are trained to solve humidity related problems and can provide the customer complete support from designing to installation of the equipment.

## The Experience

Bry-Air expertise is backed by 40 years of environmental control experience to provide positive solutions to environmental control problems. The product range is backed by the latest technologies, strong R & D, and a team of trained engineers.

## The Network

Bry-Air has the global advantage of having manufacturing plants in U.S.A., Holland, India and now Malaysia. Bry-Air U.S.A. covers the U.S., Canadian and South American markets through territorial representatives. Bry-Air Europe effectively services the European, African and parts of Middle East markets. The Indian sub-continent, Russia, China, Middle East are covered by Bry-Air India. Bry-Air Malaysia will effectively support the ASEAN belt and Far-East countries. The worldwide reach is backed by able sales and service support.

## The Service Edge

Start-up capabilities and after-sales service are not separate from sales. Bry-Air personnel world-wide do not abandon any installation.

Bry-Air enjoys the reputation of being a 'problem solver'. Customer satisfaction is the yard stick of Bry-Air's success. Bry-Air's philosophy on customer servicing is based on the motto- **"There will be no orphans in the field"**.

Bry-Air Malaysia's sales office and modern manufacturing facility is backed by total support of the Bry-Air Group. It is supporting a well-established network in South East Asia with agents located in



Bangkok (Thailand), Singapore, Jakarta (Indonesia), Manila (Philippines) and Taiwan.

Bry-Air Malaysia, maintaining a constant standard of excellence through a pool of trained personnel is effectively servicing the entire ASEAN belt with sales, engineering and after-sales support and soon the product also from the Malaysian plant.

## Our Product Range

Bry-Air and associate companies manufacture and market a wide range of air-engineering products.

- Chemical Dehumidifiers
- Seed Dryers
- Plastic Resin Dryers
- Loaders & Hoppers
- Mold Dehumidification Systems
- Pneumatic Conveying Systems
- Heat Pipe Heat Exchangers
- Heat Recovery Wheel
- Compressed Air Dryers (Refrigeration & Desiccant type)
- Brake Air Dryers
- Cable Drying Pressurizers

**Bry-Air**

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