

# dry facts

...from BRY-AIR



## Bry-Air India is now Bry-Air Asia

Effective February 18, 1998, the name Bry-Air India Pvt.Ltd. has been changed to Bry-Air Asia Pvt.Ltd.

The name change of **Bry-Air India** to **Bry-Air Asia** became necessary as **Bry-Air Asia** connotes the enlarged sphere of activity of the Indian operation.

In the last decade and half Bry-Air name has become synonymous with dehumidification, not only in India but in all of Asian markets, due to effective marketing techniques backed by effective application support and product quality and effective after-sales service support provided by Bry-Air India engineers. The Indian operation has effectively developed and supported an Agent and Rep' network in Africa, Middle East, The Indian Sub-continent, Asia Pacific countries and Australia.

A 100% owned subsidiary plant was set up in Malaysia to effectively support the countries in the region. Between the Asia operation headquartered in Delhi, India and the subsidiary facility in Malaysia, the focus will be all of Asia including China, South East Asia, and the Indian Ocean Rim countries from Africa to Australia.

*Bry-Air Asia thanks all its associates for all the support to reach this position. We look forward to long years of association and support in the traditional Bry-Air way!*



The Quest for Quality continues, . . .

## Agenda 1998 :

### A very responsive and more Effective Operation

As the sphere of our operations expand, we are constantly upgrading our skills, technology, machines and people to give our customers the best.

We have started working towards lean operations which means eliminating activities which waste time and money instead of adding value.

We are empowering our employees down to the

shop floor to spot, report and correct potential weaknesses.

Effective Enterprise means **Total Production Maintenance (TPM)** i.e. to keep machines 100% accurate for performing their tasks 100% of the time. It also means planning ahead to eliminate the slightest possibility of error. It means just-in-time, first-in-first out inventory, to reveal and pinpoint any defect of incoming supplies and it means quality support to the customer and of course . . . . . doing it right the first time.

*Our goal is clearly in view. Everyone is relentlessly pursuing the six sigma quality and effective operations will help us to get there.*

## Treated Fresh Air Units (TFA) for Commercial Airconditioning



Treated Fresh Air (TFA) units provide the most energy effective and economical solution to the problem of Poor Indoor Air Quality (IAQ).

Arctic India Engineering, a Pahwa Enterprise, in technical collaboration with IV Produkts, Sweden, ( a group Skanska company; Sweden's largest construction company), introduces the TFA in the Indian market. The

TFA is able to translate the "Wish List" of airconditioning specialists, i.e. more fresh air at less energy cost, in an effective unitary system, incorporating energy recovery device.



The energy recovery based TFA unit precools/preheat the incoming fresh air with energy recovered from the outgoing exhaust and thus reduces airconditioning load substantially. This results in reduced plant sizes which translates to lower operating costs.

TFAs can be easily integrated to existing air-conditioning systems, being modular, characterised by low height and short construction.



## Wood Dryer

### New Containerised Version



At Bry-Air, the effort has always been to keep improving our products inline with customer

needs and feedback.

The new, containerised Wood Dryer is a result of 'needs' expressed by our customers in India and abroad.

The new, containerised wood dryer is a self-contained unit with built-in dehumidification.

Compact and weather proof, the wood dryer can be wheeled in and plugged in for immediate start up.

Plug me immediately



200 cft wood in one load.

The new Bry-Air wood dryer handles upto 200 cft wood in one load.

It allows seasoning/drying of all types of wood, at site, irrespective of the weather. It also ensures fastest drying without product

spoilage. In fact, drying time can be optimised for particular type of wood by "dialing" (regulating) the drying intensity and temperature.

Visit the  
**Bry-Air**

Booth G-87 at  
Plast Malaysia '98,  
Kuala Lumpur,  
May 22-25'98



# WHEN MOISTURE IS TORTURE !

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

## Honey Drying

### Why Dry Honey ?

The demand for Mono Flora Honey is higher in the Pharmaceutical Industry, especially for export.

Honey is of mainly 3 types :



**Mono Flora Honey**  
produced from single type of flower.

**Poly Flora Honey**  
produced from various types of flower.

**Forest Honey**  
produced from Forest flower.

Export potential of mono-flora honey is tremendous.

Internationally, Mono-flora honey is required with a moisture content of 19% and Hydro Methyl furfural (HMF) content 25%.

Thus, if the Honey has a moisture content higher than specified, it has to be dried to achieve a moisture content of 19%.

### The Problem . . . .

When the honey is dried, the HMF content goes up to 40%. A leading export house contacted Bry-Air to

solve its problem of drying honey without raising the HMF content.

### The Process . . .

Raw honey is collected from the farmer. All unwanted material; dead bees, limbs, parts of beehives are removed from the raw honey by filtration.

Conventionally, the honey is dried with heat (indirect heating, with hot water circulated through a jacket surrounding the drum while honey is continuously stirred inside the drum) at a temperature of 65°C to bring down moisture content to 19% from 25 to 30%. But, due to heating over 35°C, the HMF increases to 40%.

### **Bry-Air** Solution

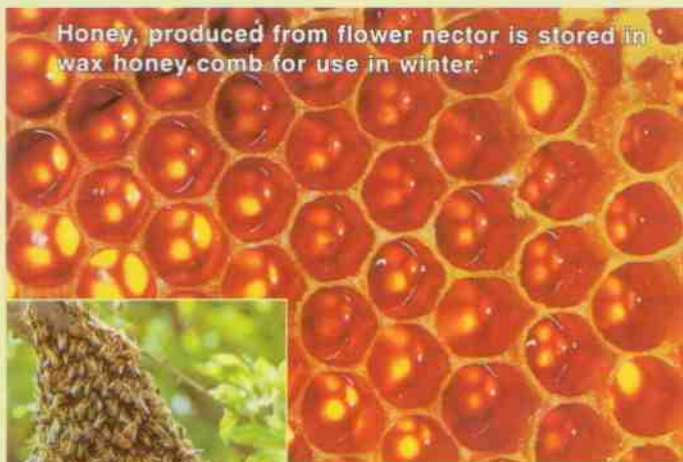
Bry-Air suggested that Honey be spread on trays to about a thickness of 4" (maximum), inside an enclosed room. Dehumidified air is then circulated into the room maintained at 35°C

temperature. This allows reduction of moisture content without raising the HMF content.

It was also suggested to pack the dried honey into the containers inside the dehumidified room, so that the dried honey does not regain moisture.

### INSIDE THE HIVE

Honey, produced from flower nectar is stored in wax honey comb for use in winter.



#### Honeybees

Honeybees are true social bees that live together with often tens of thousands in a hive. The majority of these are workers whose duties change as they grow older. In addition to feeding the larvae that live in wax brood cells, workers also feed a special food called royal jelly to the queen larvae found in the

queen cells of the hive. These queen larvae are the future queens of the colony, and a queen may live for four years and lay more than a million eggs.

Hives are constructed of six-sided cells made with a wax secreted by the honeybees. Such wax makes excellent holders for pollen, honey and larvae. For this beeswax and for their sweet, nutritious honey, the honeybee species *Apis mellifera* has been domesticated for many centuries and introduced throughout the world.

**NEW  
INTRODUCTION**

## FOR THE PLASTICS INDUSTRY

Continuing with its commitment to provide the plastics industry a total solution for all its auxiliary needs, Arctic India Sales introduces 2 new products from Maguire, USA.

### **MAGUIRE Gravimetric Blenders**

#### **Benefits**

- Cost effective.
- All materials metered by weight.
- Automatic recalibration; no corrections.
- Direct setting of percentages; no calculations.
- Simple operation.



### **MAGUIRE Low Cost Vacuum Sequencing Systems**

#### **Benefits**

- Integrated, central system for upto 8 receivers.
- Clear polycarbonate receiver allows an unrestricted view of the filling action, is lightweight and easy to clean.
- Automated load time setting.
- Capacity to convey upto 1350 kg/hr
- Remote micro-processor controller with



- built-in alarm.
- Instant access dust collector with bag-type filter.
- 'No maintenance' blower eliminates motor brush replacement.

Meet our Rep. in South Africa.



**Bry-Air Rep.**

S.Africa.

Bry-Air with help of Guntner, S.Africa has been developing and supporting the S. African market with Dehumidification, Plastic Auxiliary and Energy Recovery Systems.

Guntner, has a thorough understanding of the airconditioning industry and products and compliments Bry-Air's activities in the region.

The Guntner sales engineers and development teams provide tailor-made solutions, even for applications with most difficult technical problems.

Founded back in 1932, the Hans Guntner enterprise qualifies as one of the oldest and best authorities in its field of developing and manufacturing heat exchange units and heat exchanger systems.

With the total acquisition in 1997 of HC Air-conditioning, South Africa's leading manufacturer of air conditioning equipment, Guntner adds over 30 years of technical expertise

and know-how in the field of packaged air-conditioning equipment design and manufacture to its Group's arsenal.



Dinesh Gupta, VP INT'L

Bry-Air with the Guntner team



**Bry-Air**

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