



Dry facts

...from Arctic India Sales

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Seasons Greetings

LOOKING BACK..... LOOKING FORWARD

'Years come and years go..... some are good and some are bad'

When we bid 1989 farewell, we bid the whole decade farewell. For us the decade has been a kaleidoscope of events. The highlights being —

1983 On the 28th of February, H.E. Mr. Harry G. Barnes, the US Ambassador to India inaugurated the new Bry Air India plant, at Udyog Vihar, Gurgaon, to usher in a new era of environmental control.

The inauguration marked the fruition of a meaningful technical and financial collaboration between Arctic India Sales and Bry Air Inc. USA.

1985 Bry Air India was honoured to be selected to host the first International Meet between Bry Air India, Bry Air Inc. USA and Delair, Netherlands.

1986 Bry Air India launches Plastic Dryers for the Plastic Industry.

1987 On 10th February 1987, the Governor of Ohio, USA, Richard F. Celeste laid the foundation stone for phase-II expansion of Bry Air India plant. Bry Air was four years old then and already expanding fast.

A new joint venture, Delair India, was finalised between Bry Air India and Delair Netherlands to manufacture Compressed Air Drying Systems.

1988 February 19, 1988, another landmark was reached when Her Excellency, Mrs. Eegje M. Schoo, the Netherlands, Ambassador to India, inaugurated the Delair India Plant.

1988 Bry Air received the National Award for outstanding entrepreneurs for the year 1987, from the President of India, Shri R. Venkataraman.

1989 Bry Air R&D lab. got official recognition from the Ministry of Science and Technology.

Bry Air India opened an office in Malaysia, creating a base to look after its S.E. Asian operations.

These landmarks were achieved with your support and we hope to continue soaring higher and higher with your continued support.

Thank you for being with us. We at Arctic India Sales, Bry Air India and Delair India wish all of you

A Very Happy and Successful Decade — 1990-2000

The 5th International meet.....

Bry-Air

INDIA

U.S.A.

NETHERLANDS

The 5th International Meet called for special celebrations in the not-so-dry world of Bry Air. Bry Air Inc. celebrated its 25th Anniversary. Bry Air's international partners in the success story — Delair Netherlands and Bry-Air India were also present at Sunbury, Ohio to participate in the Anniversary celebrations.

After the celebrations came the deliberation on future strategies and programmes for continued success. The essence of the discussions was rightly captured by the topic heads of the discussion — 'WHERE ARE WE?!!' and 'WHERE ARE WE GOING?!!'. The Chief Executives of the three companies felt that this was the right time to take stock of past experiences and gear up for the 21st Century.

We Control the Air.....



- * Air Drying
- * Air Separation
- * Air Treatment

We are an application engineering company with world class products backed by latest technologies, accumulated experience and strong sales and service network.

That's why we are called the Airgineers!!

IITF '89

Environment — Special Display

Environment received special focus at the IITF '89.

Bry Air has been into environmental control for over two decades and thus naturally was a part of the theme pavilion.

The Bry Air stall at IITF displayed a wide range of dehumidifiers for moisture control, heat exchangers for harnessing waste heat and compressed air drying systems.

Bry Air introduced at the show the 'Energy Wheel' for energy recovery in HVAC systems. This is latest technology in the world today for reusing waste heat from airconditioning exhausts. The equipment finds its



application in Hospitals, Animal Research labs, Paint room and in all fresh air systems.

Bry Air also introduced a new concept of Solvent Recovery.

Bry Air has always been a forerunner in bringing to the Indian market the latest and most current — in World technology — air drying, plastics drying and waste heat recovery.

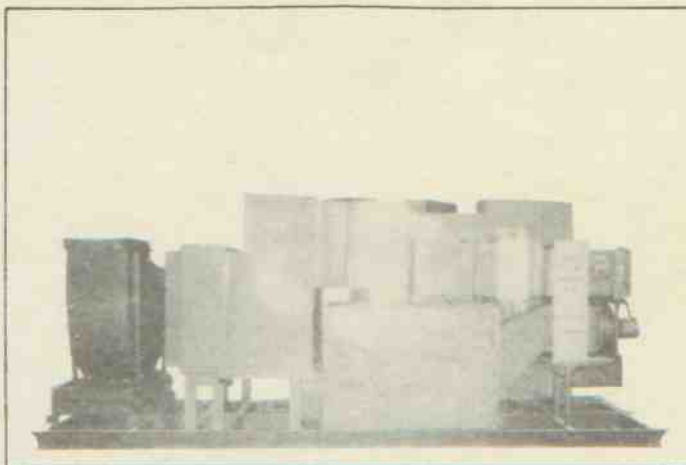
IPC '89

The Pharma Show of the Year!!

And Of Course! Arctic India Sales was a participant. The show was great success for Bry Air and Delair range of products.

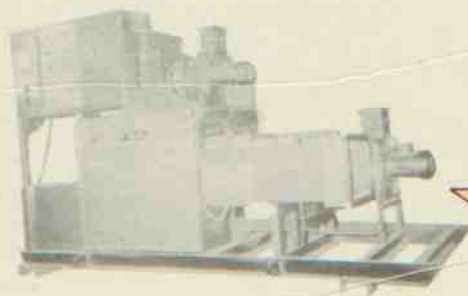
The engineers at Arctic India Sales took this opportunity to renew its ties with the industry and make new friends.

We thank everyone who visited our stalls at the IITF IITF '89 and IPC '89 and invite you all to our stalls at the coming shows Indian Industrial Exhibition at Jakarta, Indonesia; Ahara '90 at Delhi, Acrex '90 at Bangalore and Plastindia '90 at Delhi.



↑ MVB 30C FOR HITECH CAPSULES

↑ BRY STALL AT IITF '89



MVB for Russia

NORTHWIND COULD NOT KEEP **Bry-Air** AWAY.

Bry-Air goes to Russia to stay.

Bry Air dehumidifiers have already carved a niche in the Indian Pharmaceutical Industry. Now, it has set out to Russia to win over the Russian Pharma Industry.

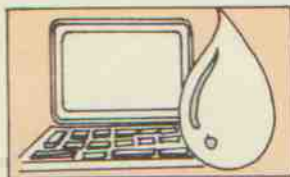
MVB Model No. 5A has been despatched to Russia for installation in capsulation room. We hope this is only first of long line of Bry Air products in Russia to come.

WHEN MOISTURE IS TORTURE!!!

Condensation Causes Corrosion And Corrosion Causes Waste

The common factor between such unlike group of products as corroded machine parts, defective plastic goods, erratic computer data and bad quality newsprint is suprisingly — the root cause of all defects in these products — Moisture. Moisture in form of water vapour is always present in air. Water vapour condenses into water droplets on any surface cooler than the dewpoint of the surrounding air.

And that creates havoc in apparently dry airconditioned areas.



Deteriorating by Bits & Bytes

Erratic printouts, frequent break downs, data dropout are nightmares for any computer user. In spite of computers

being, normally, placed in air-conditioned area, the temperature in computer rooms fluctuates when there is a power cut or breakdown of equipment or when the airconditioning is switched off at the end of the day. The sudden rise in temperature of air of the computer room results in condensation of water vapour on computer surfaces. And all the troubles begin! Moisture inside the computer causes the sensitive electronic components to behave erratically. The use of dehumidifier in such circumstances can eradicate this problem by keeping humidity at a low level and drying the surrounding air. If the airconditioner can be switched off prior to dehumidifier at the end of the computer working day, then the condensation cannot take place in the cold interior surfaces of the computers.

rusting and corrosion of the costly equipment.

The traditional method of avoiding the problem is to raise the mold temperature. Unfortunately, this lengthens the cycle, lowers the quality of the components and slows down the production rate.

The Bry-Air mold dehumidification package assures better molded parts, lower rejection rate, increased machine and labour productivity and total cost savings!



Ready to shoot!

All arms and armaments and equipment of the defence sector has to be available for operation at a short notice.

High humidity plays havoc on all metal parts and has to be avoided at any cost. When there is rise or fall in temperature of the storage spaces of such equipment, condensation takes place, and moisture settles on equipment causing it rust.

To prevent corrosion in to such cases, relative humidity should not exceed 35%-40% in warehouses, where such sensitive equipment is stored. And what else can provide the ideal environment except for Bry Air Dehumidifier!



Corrosion at Sea!!

Presence of moisture is perhaps easier to more understand in marine industry than in any other industry. The industry is

in the 'water' related business. When ships are being built dehumidified air is required for faster drying and curing of paint coating. Ship holds suffer from corrosion due to temperature differences between outside and inside air and thus, they need to be dehumidified. The engine room, also can do well with a dehumidifier and can have a 'moisture less' air in the sea.



Underground Activities!!

Underground pipe galleries suffer from a large degree of corrosion due to condensation.

The problem if not checked can lead to large scale damages of pipes. Only way to check rusting is to use a dehumidifier.

Of course there are hundreds of causes of condensation leading to corrosion and we have just quoted a handful of them. Write to us, if you are facing problems due to condensation and we will be glad to give you moisture free solution.



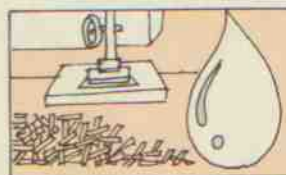
Soaking wet ?!!

Water in Paper?

That is exactly what huge paper rolls contain when they are transported. Newsprint, as we all know, is in short supply in the

country and has to be imported from paper producing countries like Finland and Sweden. The newsprint, in form of huge paper rolls, travel in cargo holds of ship by sea. And temperature and humidity like other weather conditions fluctuate heavily in sea. Moisture due to condensation settles on the huge rolls of paper and paper quality is effected.

The solution to this problem lies in blowing dry air in the cargo hold to keep the cargo dry under any condition. Bry-Air Dehumidifiers have been successfully used for this purpose a number of times.



Mold Sweating!!

Mold sweating is a real and common problem with the plastic processors. Production efficiencies and product quality demands that

the hot plastic molds be cooled by chilled water to harden the plastic quickly and release the molded parts. Nominal or high ambient humid air coming in contact with the cold molds, leads to condensation or mold sweating, which produces distortion in the molded parts and also leads to

Enter Bry-Air... exit moisture



SAVE ENERGY !! WITH ENGINEERED AIR SYSTEMS

Bry Air does its bit for energy conservation !

Bry Air has pioneered manufacture of Waste Heat Recovery equipment in the country. Using Bry Air's Energy/Heat Recovery Systems, one can recycle and reuse wasted energy from industrial and HVAC exhaust.

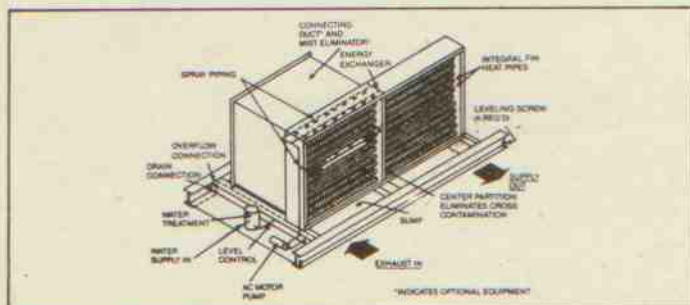
From our large store house of application library, we bring you areas where Bry Air Heat Pipe and Heat Wheel based Waste Heat Recovery Systems can be ideally used to save energy.

Indirect Evaporative Cooling Key to lower HVAC Operating Costs

Indirect evaporative cooling systems represent a significant advance in the use of heat pipes. The use of these systems reduce power consumption by 20%-50% and also reduce the size of airconditioning equipment requirement.

Take a typical manufacturing area where ambient air is to be cooled and used for ventilation purposes without increasing-moisture. The indirect evaporative cooling system installed in the ventilating ducts lowers the temperature of the incoming air supply. The same system is used in heating season to recover waste exhaust air heat and recycle it into the manufacture area.

The indirect evaporative cooling system when used in conjunction with a conventional airconditioning equipment to cool air, reduces power consumption and mechanical refrigeration costs. In such an arrangement, building exhaust air is frequently at 76F-77F with humidity at 50%. The lower relative humidity of air of the building greatly increases the ability of the exhaust air stream to evaporate water. Thus, power costs can be saved when the exhaust side of indirect evaporative cooling



system is sprayed with water which substantially cools the makeup air. This precooling of makeup greatly reduces the load on mechanical refrigeration or airconditioning. In very dry climate where the humidity is very low this system used with a desert can cool as well as add moisture at new phase

The use of these systems reduces load of refrigeration systems and saves in airconditioning tonnage, thereby saving power consumption.

Animal Research Facility How to cut energy costs?

Animal Research Rooms, probably represents one of the largest requirements of conditioned fresh air. The exclusive heat wheel based heat exchanger is the ideal 'Next generation Total Energy recovery System' to cut costs of air handling systems of Animal Research Rooms.

The incorporation of the heat wheel based energy recovery system in the air handling systems reduces first cost of the equipment, as chiller plant capacity is substantially reduced. The benefits of the system go beyond simple economies. The use of 100% outdoor air creates the most antiseptic, odour free environment.

The patented molecular sieve coating of the wheel allows effective latent heat recovery while eliminating cross contamination of airborne ammonia, formaldehyde and other animal odour, the hallmark of such an application.

Thus for sound economics plus fresh conditioned pollution free and odour free air in Animal Research rooms, the Heat Wheel installation is the only solution.



For more details, write to **ARCTIC INDIA SALES** 20 RAJPUR ROAD, DELHI-110054