

# AIR FACTS

www.bryair.com News on Gas Phase Filtration

PAHWA GROUP  
Innovation is life

DRI™

TDS™

delair®

Volume IV

**We are never far from you**

**With an Exhibition or a Seminar every 2<sup>nd</sup> day, Bry-Air is always near you!**



Food & Technology, Delhi



Food Pro, Chennai



China Refrigeration, China



JIMEX, Jordan



Spices & Herbs  
Exhibition & seminar, Delhi



ISRO Seminar, Andhra Pradesh  
and many more

**Bry-Air®**

**Wins Star Performer Award Again!**

BRY-AIR has been awarded EEPICINDIA Star Performer Award regularly for more than a decade for Excellence in Export Performance



**Bry-Air® launches**

## Atmospheric Corrosivity Monitor!

**Measure the corrosivity levels of local atmosphere in real time!**

High humidity is not the only factor resulting in corrosion and equipment failure. Atmospheric air laden with pollutants like Hydrogen Sulphide (H<sub>2</sub>S), Sulphur dioxide (SO<sub>2</sub>), Nitrogen oxide (NO<sub>2</sub>), Ammonia, Hydrocarbons, etc. drastically increase corrosion rate resulting in equipment failure.



Corrosion rate per year & Equipment failure

|             |                                     |
|-------------|-------------------------------------|
| <0.1 micron | No failures found                   |
| >0.1 micron | Intermittent failure in 1-2 years   |
| >0.4 micron | Inoperative in 2-4 years            |
| >0.6 micron | Intermittent failure in 0.5-1 years |
| >2.0 micron | Inoperative in 0.25-0.5 years       |

The atmospheric corrosivity monitor model BCM 232 measures the overall reactivity levels of gaseous airborne contaminants, room temperature, relative humidity and even differential pressure.

Usage of this device allows an immediate corrective action leading to increased reliability and reduced maintenance costs of electronic and electrical equipment affected by corrosion.

Atmospheric Corrosivity Monitor is necessary in control rooms, data centers, museums, etc. This helps in evaluating the corrosivity potential of indoor air and actual effectiveness of the installed filter system.



Please visit our website [www.bryair.com](http://www.bryair.com) to check the schedule of upcoming events

# Remove Ethylene to retain quality and extend storage life of fruits and vegetables

## Problem:

### Ethylene ripens fruits and vegetables

Ethylene permeates through barriers like corrugated cardboard, plastic containers, etc. which store fruits and vegetables. When ethylene makes contact with the ethylene receptors, a reaction at the genetic level is started, depending on the stage of the life cycle the fruit is in. This process once started can deteriorate the quality of fruits and vegetables.

## Solution:

### Remove ethylene

Fruits and vegetables remain fresh for a longer period during off season storage if ethylene is removed from the storage atmosphere. It results in:

- A competitive edge with better looking and better tasting product
- Increased customer satisfaction
- Increase in profitability
- Decreased rejections and reduced waste

## Bry-Air Ethylene Scrubber

Ethylene removal is a natural process that does not affect the property of fruit or vegetable. Ethylene that is released naturally can be continuously removed by Bry-Air



Ethylene Scrubber (BES) through the process of adsorption and chemisorption.

The Bry-Air Ethylene Scrubber (BES) extends shelf life of fruits and vegetables, minimizes loss due to decay, ensures off season availability and eliminates harmful preservation practices that use Nitrogen and Sulphur gas. Fruits and vegetables, thus retains their naturalness and can be ripened as per demand without bearing traces of toxic gases.



**P**rotecting the electronic equipment data processing centers from any potential environmental threat is a vital step for a data center manager. Even extremely low levels of corrosive gases in data centers can create costly complications, downtime, a non-compliance of electronic warranty specifications, failure of electronic components and sporadic circuit failure, leading to incorrect and lost data in data centers.

## Problem:

After the introduction of "lead free" law, such as EU directive "on the restriction of the use of certain hazardous substance" ROHS, manufacturers have replaced lead with other substances which are more susceptible to electronic corrosion.

As a result, replacing damaged electronic components due to micro corrosion can substantially increase a data center's

maintenance costs. Due to increasing number of failures where lead free materials are used electronic manufactures have started asking for:

- ISA GI class environment for warranty compliance as described by the International Society of Automation (ISA) Standard 71.04-2013
- As per recommendation by American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Technical Committee TC9.9 2011.
- Data Center Air Purifiers (DAP)

# Data Centers: Extremely vulnerable to corrosive gases



## Solution

Bry-Air has developed its Data Center Air Purifier to ensure that corrosive gases are removed from the ambient air. The Bry-Air DAP incorporates the revolutionary Honeycomb Chemical Filter as its core. The Honeycomb Matrix Technology (patent pending) not only reduces the size of DAP but also increases its efficiency.

# Odour Control in Mortuaries

## Formaldehyde: A hidden threat to the staff

Mortuary is the place where usually dead bodies are kept before last rites. Generally located in a far off isolated corner of the hospital, it has the facilities for body preservation and autopsy.

In addition to hospitals, mortuaries form an integral part of many medical colleges engaged in performing autopsies. They are also used for teaching and training undergraduate and postgraduate medical students.

## Formaldehyde: The biggest threat

In order to preserve the dead body, it is embalmed with formaldehyde which is volatile and has a characteristic odour. Although the decomposition of a dead body is slow in the refrigerated environment, it never stops and leads to accumulation of gases such as Thiols, Hydrogen Sulphide ( $H_2S$ ), Ammonia ( $NH_3$ ), Carbon Dioxide ( $CO_2$ ), Methane ( $CH_4$ ), and Nitrogen Oxides (Nox)

## Ill effects of exposure to Formaldehyde

Formaldehyde poses the greatest threat to staff working in mortuaries. Some of the very obvious and recognizable effects of formaldehyde are:

- Headaches
- Eye, nose, throat irritation
- Dermatitis
- Difficulty in breathing

*Formaldehyde is classified as a probable human carcinogen by Environmental Protection Agency (EPA) and Health Canada. According to the Occupational Safety and Health Administration (OSHA), USA, the permissible exposure limit for formaldehyde in the work place is 0.75 parts per million averaged over an 8-hour work day. The odour threshold for formaldehyde is between 0.1-1.0 ppm. Essentially this means that if you can smell it there is a pretty good chance that air quality does not meet safety standards.*



## How can Bry-Air help you?

The Bry-Air Odour Control System is ideal for removing toxic gases and eliminating odour from air. Through the process of adsorption and chemisorption, air inside the mortuary and autopsy room is purified when passing through a chemical filter.

The cleaning of contaminated air occurs at the molecular level when pollutant gas molecules react with chemicals present in the filter.

Use Bry-Air Odour Control System and maintain a healthy Formaldehyde free environment in mortuaries and autopsy rooms



# CSR Update



Bry-Air and DRI provides vocational and skill based training to the under-privileged in partnership with:

- **Humana People to People India** for Beautician & Tailoring training at Chakkarpur and Bhawani Enclave, Gurgaon
- **Etasha Society** for Customer Service and IT training at Khanpur, Delhi
- **Literacy India** for Tailoring training at Carterpuri village, Gurgaon
- **Ma. My Anchor Foundation** or Housekeeping and Spoken English at Udaipur, Rajasthan



Tailoring



Beautician Courses



Tailoring



Beautician Courses



Tailoring



Housekeeping and Spoken English



The focus of our CSR (Corporate Social Responsibility) activities is on  
Vision • Education • Environment • Hygiene & Sanitation

**Bry-Air**

**SHOW  
CALENDAR**

**2015**

1-4 NOV.

**Paperex**  
New Delhi

NOVEMBER

19-21 NOV.

**Agro Protech**  
Kolkata

NOVEMBER

27-30 NOV.

**Indplas**  
Kolkata

NOVEMBER

01-03 DEC.

**P-Mec**  
Mumbai

DECEMBER

more on [www.bryair.com](http://www.bryair.com)

**Bry-Air**

## Gas Phase Filtration

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