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AIR FACTS



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delair®

News on Gas Phase Filtration

Volume III



Let our
AIRGINEERS™
take you
through
our new
website

Our new website www.bryairfiltration.com provides enhanced engagement to the viewer through its refreshing interface that enables easier access into the wealth of information relating to all gas phase filtration applications.



Introducing India's First Gas Phase Filtration Lab

Bry-Air recently set up a state-of-the-art Gas Phase Filtration Laboratory at its Gurgaon plant, which is one of a kind in India. The Gas Phase Filtration Laboratory (GPFL) is equipped with world class technology and systems. It is capable of testing the performance of both, loose granular media and sorptive media, under one roof.

The tests are conducted as per ANSI/ASHRAE Standard 145.1 and BSR/ASHRAE Standard 145.2.



**We promise to keep bringing new happenings in the upcoming year too.
Wishing you a happy and prosperous new year 2013**

What's new at our group companies

delair®

Delair recently launched a micro processor based Ultima series refrigeration dryer which has the latest Delsmart Card with RS-485 Port-Touch Screen.



DRI recently presented a technical paper at ISHRAE TECH FEST Goa. The paper was titled "Gas Phase Filtration for Mission Critical Facilities & Indirect Evaporative Cooling for Green Data Centers". The presentation received a great response from the audience.

TDS™

TDS will participate in the upcoming event Asian Steel Conference, 11-12 January 2013 at The Orchid, Mumbai.

Your data center may be lacking a critical protective element

According to an ASHRAE white paper on Data Center Airborne Contamination, presented by members of TC 9.9 committee, the gaseous contamination is one of the major causes for the high rate of hardware failures in data centers. The study has been supported by all major computing equipment manufacturers like IBM, Intel, HP, CISCO, Dells etc. The report suggested that gaseous contamination should be modified within ANSI / ISA - 71.04 - 1985 severity level G1.

Many data centers have harmful environment from infiltration of outdoor particulate or gaseous contaminants. Data centers located in the industrial townships like Noida (Delhi NCR) , Okhla industrial area (Delhi) , Malad (Mumbai) etc. are specially more prone to gaseous contamination. The ASHRAE white paper also highlighted that in addition to temperature and humidity control, dust and gaseous contamination should also be monitored and controlled. These additional environmental measures are especially important for data centers located near industrial areas and other sources which pollute the environment.

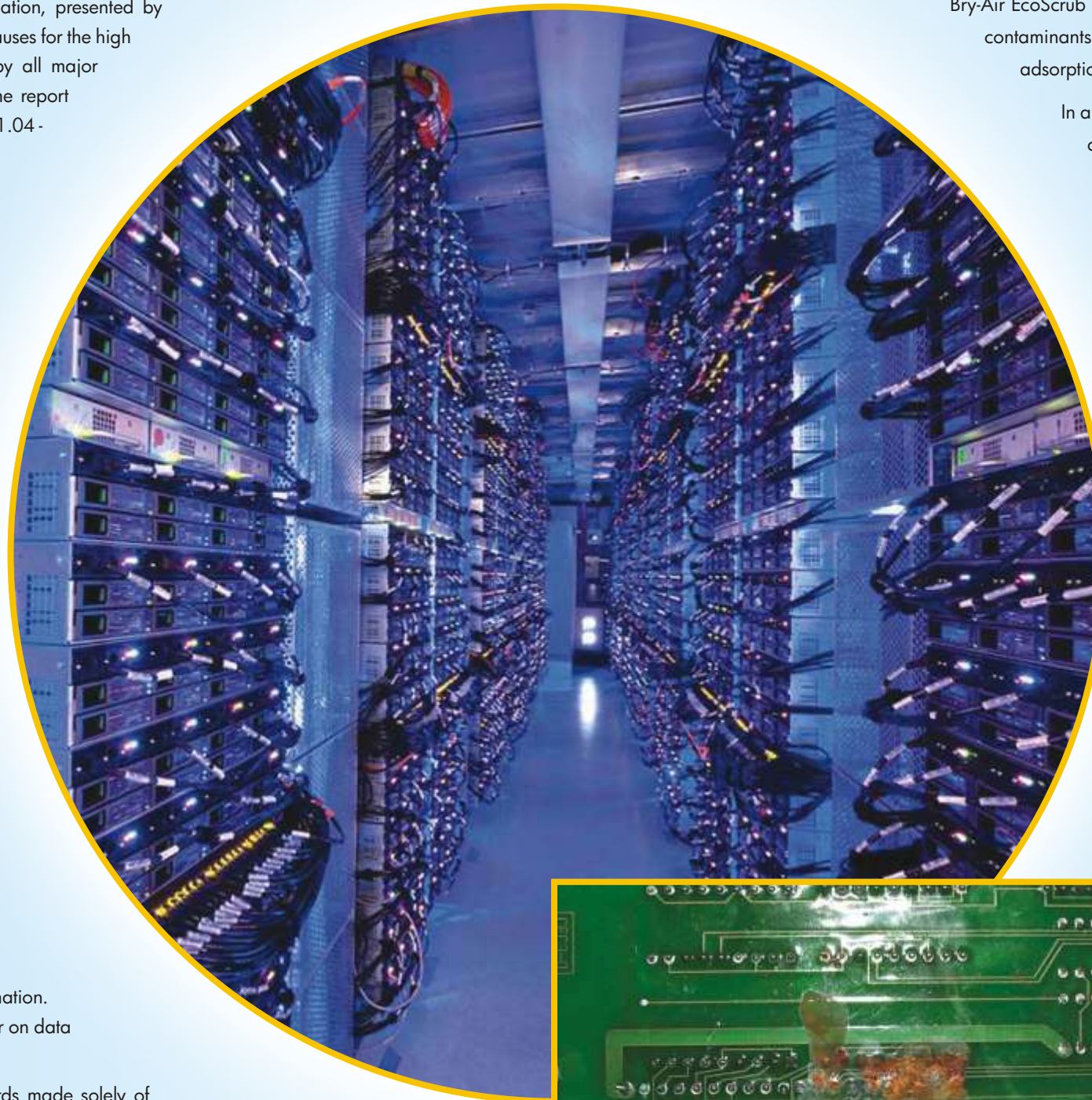
Data centers are more prone to airborne contamination if they are situated near by:

- Sewers / drains
- Landfill sites
- High density traffic
- Process Industry (discharging industrial effluents)

How corrosion affects electronic equipment and components

Electronic components are a complex assembly of metallic and non-metallic materials which are highly susceptible to electronic corrosion. Electronic corrosion, if left untreated, can affect electronic components as follows:

- **Film Disk** — At reaction site there can be a loss of stored information. Additionally, as reaction products accumulate, mechanical failure can occur on data tracks previously not corroded.
- **Edge Connectors** — These connectors are situated on the circuit boards made solely of copper or are gold-plated over a nickel-plated copper substrate. Corrosion can easily lead to disruption in the connector points and affect data transfer.
- **Disk Drives** — The formation of disk drives is such that it makes them highly susceptible to electronic corrosion even in indoor environment.



Bry-Air® solution to electronic corrosion

Bry-Air EcoScrub Gas Phase Filtration System is ideal for human and hardware health. It removes contaminants and eliminates downtime by removing corrosive gases through a process of adsorption and chemisorption.

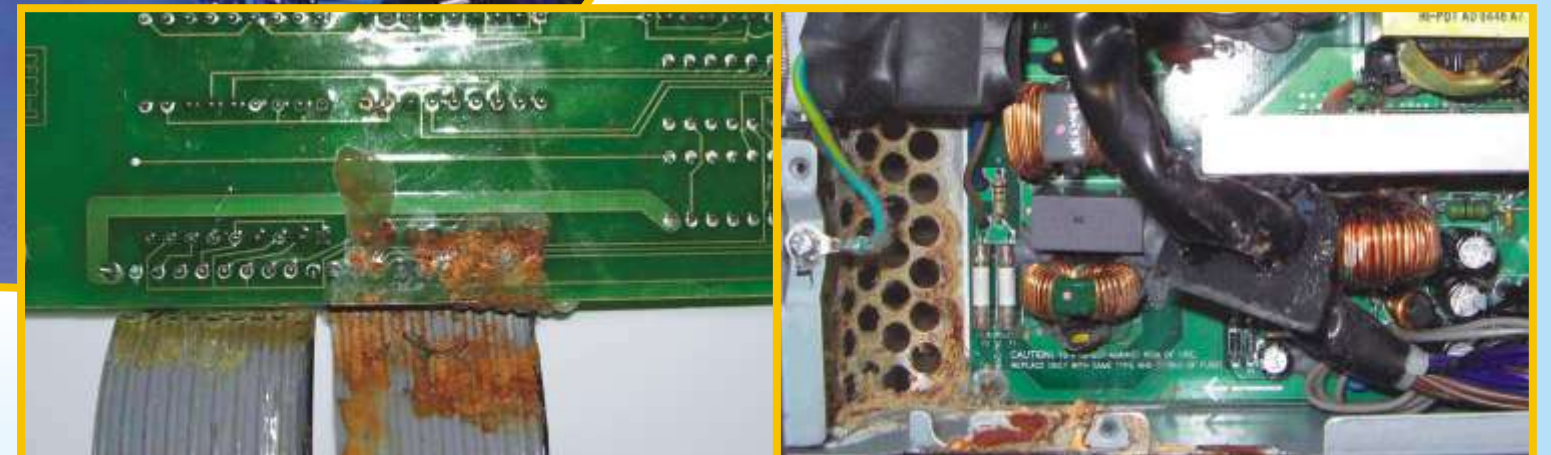
In a chemical filter, gases are filtered and cleaned up when they are passed through a chemical filter. Cleaning of the gas occurs at molecular level when pollutant gas molecules react with the chemical in the chemical filter.

Bry-Air EcoScrub Gas Phase Filtration System now comprises of a Honeycomb Chemical Filter which is technologically superior as compared to granular filters or pelletized media. It is a macro-porous desiccant based honeycomb matrix impregnated with a choice of oxidizing agents, alkaline solutions and is also bactericidal by treating the same with antibacterial agents.

This technology is the first ever such solution in the world which uses 'in-situ' synthesized macro porous honeycomb matrix to remove airborne contamination like formaldehyde, H₂S, SO₂ and other VOCs.

Few advantages over Extruded Honeycomb Chemical Filter:

- Very high structural strength
- High bulk density
- Low pressure drop (due to laminar flow)
- Low footprint
- 400 – 600 FPM face velocity



Bry-Air® CSR update

Eye Camp at Dhaula Village, Gurgaon

Bry-Air CSR team recently organized the 17th Eye Camp on 8th October, 2012 at Dhaula village, Gurgaon in partnership with Venu Eye Institute & Research Centre. Two hundred and forty two (242) patients from and around Dhaula village were provided free eye check-up. Out of these, 24 patients were successfully operated for cataract. Like at all other camps, free spectacles and medicines were also distributed.



*Thank you for your response.
We bring you a snapshot review of our latest events.*



Petrotech 2012, 14-17 Oct. 2012, Pragati Maidan, New Delhi

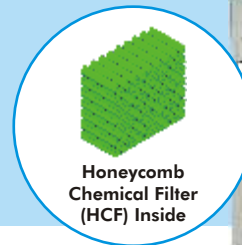


Process Engineering Expo and Conference 2012, 23-25 August, HITEX Exhibition Centre, Hyderabad



Gas Phase Filtration (GPF) System

- Prevents corrosion/breakdown of electronic equipment
- Removes corrosive and odorous gases effectively



Honeycomb Chemical Filter (HCF) Inside



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