

Noxious air throttles man and machine

India ranks 177/180 countries in Environmental Performance Index (EPI)

EPI (Index developed by Yale University) ranking has proved that the air quality has been serious health hazard to the nation, especially, the national capital region. Even the state governments have declared the health emergency for the citizens when the pollution level peaked.

Along with human health, the commercial sector is also facing similar challenges. The machines installed in these commercial sector, primarily the data centres, server rooms and control rooms are vulnerable to surrounded pollution.

The maintenance agencies of electronic control room or service room at commercial sector are installing the air purifiers at their units, to protect their facilities from the most common air pollutants such as: Cl_2 , HF, O_3 , SO_2 , SO_3 , NO_x , NH_3 . The facility should ensure G1/G2 level of gasses concentration at their electronic control room. The corrosive gasses concentration level and corrosion security level can be referred through the given table.

	Mild	Moderate	Harsh	Severe
CONTAMINANT	G1	G2	G3	GX
	Corrosion is not a factor	Corrosion is measurable	High probability	Only specially designed equipment can service
Cl_2	<1	<2	<10	>10
HF	<1	<2	<10	>10
O_3	<2	<25	<100	>100
H_2S	<3	<10	<50	>50
SO_2 , SO_3	<10	<100	<300	>300
NO_x	<50	<125	<1250	>1250
NH_3	<500	<1000	<25000	>25000

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Date : 3rd - 6th December, 2019
Timing : 10:00 a.m. - 06:00 p.m. onwards
Venue : Pragati Maidan, New Delhi, India

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R.S.V.P.
Manish Jain
+91-8826008137

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The pulp & paper industry has become increasingly dependent on sophisticated electronic process control system in order to maximize operating efficiency and productivity.

The corrosive gasses release during the paper making process harms the electronic equipment and disrupts the operations. Thus, Bry-Air recommends to install Gas Phase filtration system for smooth operations. To learn more about Gas Phase Filtration, please visit us at Paperex 2019, Gr. Noida at Hall No. A4-B, Booth No. 4473.

Bry-Air ensures good health of medical instruments

The air quality at hospitals, nursing homes, IVF clinics is as critical for the medical instruments/equipment as for the patients, doctors and staff workers. These medical instruments help in performing quick and accurate diagnostic medical procedures.



Technology plays a critical role in transforming healthcare industry. We have incorporated the technology in every facet of our lives, from morning alarms to checking BP at midnight. It has made significant contributions to the healthcare industry by providing medical records, telemedicine, remote advice etc.

With the technology upgradation, more and more sophisticated medical instruments have been introduced. These instruments provide quick and accurate diagnostic test results which facilitate early detection of the health problems. The diagnostic medical test/procedures such as CT scans or MRI scan rely heavily on the precision of medical instruments. The electronic components of these expensive and sophisticated instruments are vulnerable to airborne molecular contamination, which can affect its efficiency and accuracy.

Moreover, the OEMs may deny for annual maintenance if the environment of machine, RH level and temperature levels don't with their prescribed limits.



Key influences

In the healthcare facility, the HVAC system use fresh air system where the polluted air is drawn from outside. The vehicular emissions, nearby industrial areas and open drains contribute substantially in degrading the air quality outside. This contaminated air enters the healthcare facility via the HVAC system.

Temperature fluctuation is another common cause of electronic component failure, electronics are all designed to support specific temperature ranges.

Recommended operating temperature is 20-25°C.

Instruments and clinics at risk

- MRI machine
- CT scan
- X-ray machine
- Diagnostic laboratories equipment
- Robotic surgery machine

- Operation theaters
- Dental clinics
- IVF/Fertility clinics

Challenges while operating valuable medical instruments

- Condensation due to temperature fluctuations
- Corrosion due to corrosive gases
- Frequent breakdown of equipment due to corrosion
- Machine malfunction
- Delayed test results
- Inaccurate test results
- Odour causing chronic diseases

IVF

During the in-vitro fertilization process, the air quality is critical in the development of the embryo. The air contamination adversely affects the IVF process. The chemicals used in the laboratories such as floor cleaners, air fresheners, cleaning fluids release harmful gases and airborne particles which detriment the IVF process. Air filtration system remains the ideal solution to ensure clean air at the IVF centre.

Special care units

The poor air quality directly impacts the patients stationed at intensive care units,



operation theatre, emergency units, burn and plastic surgery ward. Since the patients are frail and prone to infections, it is necessary to ensure clean air at these special units.

Diagnostic laboratories

In microbiology laboratories the airborne contamination is majorly caused by VOCs, Ozone, Formaldehyde, Chloroform, Xylene chemicals. Thus, high-performance standalone laboratories air cleaning units are installed to recirculate the air. It removes the airborne contaminants along with the odour.

Animal research laboratories

When animals are caged in IVC systems or ventilated cabinets for long, the risk of contamination is highest. Also, while the performing test Waste Anaesthetic Gases (WAGs) such as Isoflurane and Nitrous Oxide are released. In addition to this, the gases from animal excreta and decay of leftover animal food are released which

contaminates the environment. Inhaling these gases leads to many chronic illnesses.

The solution

Installation of air filtration systems to combat with air contamination is the only solution to

the problem. Bry-Air Gas Phase filtration system can effectively remove the tiny pollutants from the indoor air. Its a unique process not only cleans the contaminated air and also eliminates the odour, making the working environment healthy for patients, doctors and medical instruments.



We are never too far from you

In view of Pulp and Paper industry's air filtration needs, Bry-Air participated in two IPPTA Seminar 2019. The events, held Goa and Andhra Pradesh. The zonal seminars were organised by Indian Pulp and Paper Technical Association (IPPTA) to discuss the potential technologies related to Indian paper industry requirements.

At the two-day events, Bry-Air talked about the benefits of Gas Phase Filtration Systems. Around 50 paper industry officials met the Bry-Air representatives at the Bry-Air booth.



IPPTA Seminar, Goa



IPPTA, Rajahmundry, Andhra Pradesh

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bryairmarketing@pahwa.com



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BRY-AIR (ASIA) PVT. LTD.

Corporate Office:
21C, Sector-18, Gurugram 122015
Phone: +91-124-4091111
Fax: +91-124-4091100
E-mail: bryairmarketing@pahwa.com
Registered Office:
20, Rajpur Road, Delhi 110054
Phone: +91-11-23906666
Fax: +91-11-23906600
E-mail: enquire@pahwa.com
Web.: www.bryair.com
CIN: U74210DL1981PTC012456

City	Phone
DELHI	+91-11-23906666
CHANDIGARH	+91-172-4678806/7
MUMBAI	+91-22-24935155/24947475
VADODARA	+91-265-2351493
KOLKATA	+91-33-22814841/22814877
BENGALURU	+91-80-43025562/3/4/5
HYDERABAD	+91-40-27154243
CHENNAI	+91-44-26163820/2940
KOCHI	+91-484-2395940

E-mail
enquire@pahwa.com
bryairchandigarh@pahwa.com
bryairmumbai@pahwa.com
bryairbaroda@pahwa.com
bryairkolkata@pahwa.com
bryairbangalore@pahwa.com
bryairhyderabad@pahwa.com
bryairchennai@pahwa.com
bryairkochi@pahwa.com

BRY-AIR (USA)
Phone: +1-740-965-2974
Fax: +1-740-965-5470
E-mail: bryair1@bryair.com
Website: www.bry-air.com

BRY-AIR (MALAYSIA)
Phone: +60-3-89256622
Fax: +60-3-89259957
E-mail: bryair@bryair.com.my
Website: www.bryair.com.my

BRY-AIR (CHINA)
Phone: +86-21-34126537
E-mail: info@bryair.com.cn
Website: www.bryair.com.cn

BRY-AIR (BRAZIL)
Phone: +55-41-36982222
E-mail: contato@bryair.com.br
Website: www.bryair.com.br

Country	Phone	E-mail	Website
BRY-AIR (UAE)	+971-6-5574622	support@bryair.ae	www.bryair.com/uae
BRY-AIR (PHILIPPINES)	+63-2-88078436	mail@bryair.com.ph	www.bryair.com/philippines
BRY-AIR (INDONESIA)	+62-21-79199023	indomark@bryair.com.my	www.bryair.com.my/indonesia
BRY-AIR (VIETNAM)	+84-8-39956498	vietmarketing@bryair.com.my	www.bryair.com.my/vietnam
BRY-AIR (NIGERIA)	+234-8097276772	bryairnigeria@pahwa.com	www.bryair.com/nigeria
BRY-AIR (SWITZERLAND)	+41-91-6830971	info@pro-kon.ch	www.bryairprokon.com
BRY-AIR (BANGLADESH)	+880-1819409100	bryairbangladesh@pahwa.com	www.bryair.com/bangladesh

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