

AIR FACTS



News on Gas Phase Filtration

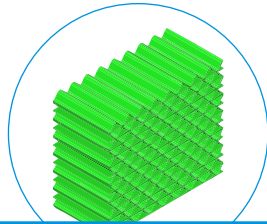
Volume II



A Game Changer has arrived....

AHR Expo 2012 held at Chicago in January 2012 provided big crowds and hot topics. The expo set an all time attendance record of 40,000 registered visitors. A plethora of new products were launched in the exhibition, Bry-air took this opportunity and introduced "Honeycomb Chemical Filter" (Tested by most respected RTI Labs, U.S.A) in front of HVAC industry gathering. The product received a very good response and created a buzz in the industry as a technologically advanced product. It is considered to be a breakthrough in gas phase filtration. Most of the visitors were keen on knowing the performance, life and commercial availability. The curiosity was generated among many representative firms involved in gas phase filtration regarding the possible combinations leading to reduction in size of equipment with enhanced life. Bry-Air is now set to explore all the avenues of gas phase filtration with its new Honeycomb Chemical Filter.

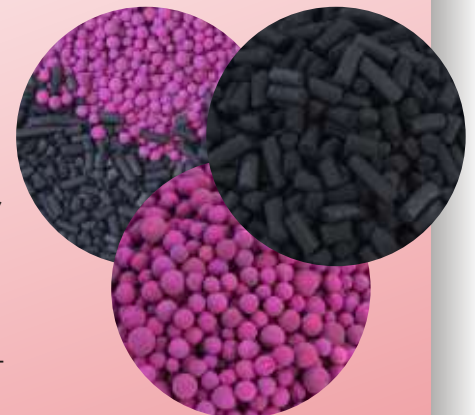
Formed v/s Extruded Honeycomb Chemical Filter



Bry-Air® Formed Honeycomb Chemical Filter	Extruded Honeycomb Carbon Filter
Very high structural strength	Very fragile
Available with choices of metal silicate or carbon or combo	Limited mainly to active carbon
High Bulk density	Limited bulk density
Impregnate loading are often 3-5 times of what can be put on a extruded carbon honeycomb	Limited in amount of impregnate loading
Can be impregnated with permagnate, hydroxides, phosphoric acid, bicarbonates	Not impregnated with permanganate
Low pressure drop (due to laminar flow)	High pressure drop (due to turbulent flow)
Low footprint	High footprint
Very high adsorbtion capacity	Low adsorbtion capacity
Longer meantime between replacement (MTBR)	Shorter meantime between replacement
400 – 600 FPM face velocity	125 FPM face velocity
More efficient	Less efficient
Low in energy cost	Uses more power and energy
Reduced size of chemical filter equipment	Large size of chemical filter
Can be made bactericidal	Cannot be treated with anti bacterial agents

Why Bry-Air Formed Honeycomb Chemical Filters?

- Only Honeycomb Filter with Permanganate
- Available in Combination with Various Impregnates
- Very Low Pressure Drop / High Energy Efficiency
- Very High Capacity
- Tested by Most Respectable RTI Lab of USA
- Longer Life (Low MTBR)
- Tested in Accordance to ASHRAE 145.2 P and ISO 11155-2
- Nearly 100 % Efficiency
- Air Flow Range is 400 to 600 FPM
- Monolith Media Available in 1" to 12" Depths in Standard and Custom Filter Sizes
- Bulk Density > 40 Lb / cu ft
- Backed by Bry-Air's Cutting Edge State-of-the-Art R&D and Testing Facilities



Get control over invisible enemy seeping into your DCS room

Distributed control system (DCS) are dedicated systems used for controlling manufacturing processes that are continuous or batch oriented, such as oil refining, petrochemicals, power generation, pharmaceuticals, food & beverage processing, cement production, steel making, and paper making. The environment and various process involved in a paper mill, petrochemical plant, food processing plant etc. are such that, there is continuous emission of corrosive gases like Hydrogen Sulphide, Sulphur Dioxide, Bromine and Oxides of Nitrogen, Chlorine etc. These unwanted gases easily seep into DCS rooms which leads to electronic corrosion.

Electronic corrosion if left untreated for long can lead to :

- Server Failure
- Electronic malfunction
- Short circuits
- Costly maintenance
- Downtime losses

While measures are in place for controlling temperature and humidity, gaseous contamination is generally overlooked. In addition to temperature and humidity, gaseous contamination should also be controlled.

The Bry-Air Solution

Process industries having critical equipments in DCS rooms can prevent downtime caused due to corrosion/ breakdown by installing a Bry-Air EcoScrub Gas Phase Filtration system. Bry-Air's Gas Phase Filtration system removes corrosive gases by a process of adsorption and chemisorption using the BrySorb impregnated media. The Bry-Air EcoScrub is designed to maintain various electronic environmental standards such as ISA standard 71.04, IEC standard, Environmental standards followed by electronic manufacturers all over the world for smooth operation of electronics.



Few snaps....



AHR Expo 2012

23 - 25 Jan. 2012,
Chicago



IPC 2011

PHARMAceutical Expo 2011,
16-18 Dec. 2011,
Bangalore International
Exhibition Centre,
Bangalore.

Gas Phase Filtration (GPF) Application Industries :



IT/Server Rooms



Petrochemical & Oil Refineries



Paper and Pulp Industry



Waste Water &
Sewage Treatment Plant



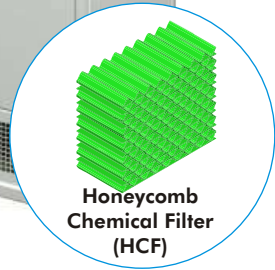
Museums & Archives



Semiconductor manufacturing

and many more...

Bry-Air®
Gas Phase Filtration (GPF) System



**Honeycomb
Chemical Filter
(HCF)**

world- wide network of **Bry-Air®** sales & service office at your disposal

VISIT US AT
www.bryairfiltration.com

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