

Bry-Air®

Gas Phase Filtration

Formed

HONEYCOMB

CHEMICAL FILTER

(Patent Pending)

The **Future** of
GAS PHASE FILTRATION
is HERE



www.bryair.com

It took us an evolution to move from bronze to iron to steel age. A similar breakthrough took us ahead from Granular to Extruded Carbon to Formed Honeycomb Media in Gas Phase Filtration technology.

This next-generation revolutionary new medium is a building block of the future of Gas Phase Filtration and is applicable in both industrial and commercial environments. It brings with itself the advantage of 100% efficiency.

**It is a Game Changer
Formed v/s Extruded Honeycomb**

Extruded Honeycomb Chemical Filters are mainly limited to active carbon and are fragile. They are limited in size, and also in the amount of impregnates that can be added to the carbon honeycomb, and further limited to the impregnates that can be put onto the honeycomb e.g. carbon honeycombs cannot be impregnated with permanganates. On the other hand, Bry-Air macro-porous desiccant formed honeycomb matrix has a high bulk density, very high structural strength and adsorption capacity, and it can be impregnated with permanganates, hydroxides, phosphoric acid, Thiosulphate and Bycarbonate, and many more and those impregnates are often 3 to 5 times of what can be put on an extruded carbon honeycomb. Further, the Bry-Air Chemical honeycomb filter can be run from 400 to 600 FPM with limited pressure drop. All of above providing a very high capacity chemical filter with a much longer mean time between replacement (MTBR) of an equivalent size extruded carbon honeycomb.

The Bry-Air Chemical Honeycomb Filter comprises of macro-porous desiccant based honeycomb matrix impregnated with a choice of oxidizing agents, alkaline solutions and is also made bactericidal by treating the same with antibacterial agents. This new honeycomb matrix technology not only reduces the size of chemical filtration equipment, but also increases its efficiency and life while lowering energy bills. It allows sizing the chemical filter from 400 to 600 FPM face velocity, shrinking dramatically the size of the housing/unit footprint.

Bry-Air Desiccant Formed Honeycomb Chemical Filter Fits All Applications

This new technology can be used both in commercial and industrial applications and is ideal for human and hardware health. It removes contaminants and eliminates odor and downtime by removing toxic/corrosive gases through the process of adsorption and chemisorption.

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CHEMICAL FILTER (Patent Pending)

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History

Granular

- 80 fpm

Extruded Carbon Filter

- 125 fpm

Future

Extruded Honeycomb

- 500 fpm

Bry-Air Honeycomb Combinations

Alone or Any Combo	{	Desiccant	+	Impregnates	}	Alone or Any Combo
		Metal Silicate		K/Na Permanganate Na Thiosulphate, K/Na Hydroxide Phosphoric acid Na/K Carbonate ++		

Ideal for:

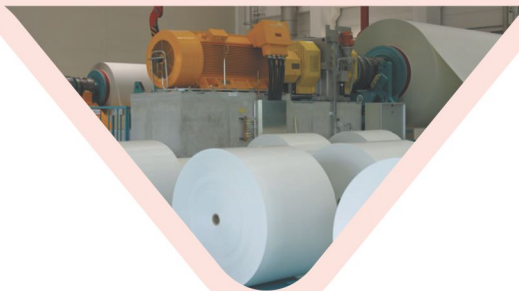
- Petrochemical Refineries
- Paper and Pulp Industry
- Waste Water Treatment
- Data Centers and Mission Critical Facilities
- Process Industry
- Server Rooms
- Research Labs
- Electronic and Semi Conductor Industry
- Food Processing Industry
- Fertilizers Industry
- Corrosion Protection
- Achieving G1 Conditions

Limitations of Granular/Extruded Carbon Honeycomb Filters

- Highly Fragile Powdering/Dusting/Attrition (Granular)
- Limited Size
- Very Large Non Active Clay Component
- Low Percentage (%) of Impregnate(s) Loading
- Limited Bulk Density
- Operating Range 125 to 250 FPM max
- Requires Final Dusting Filters & Added Pressure Drop
- Requires High Pressure Fans and Motors
- Requires Special Filter Housings

Why Bry-Air Formed Honeycomb Filters?

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



4 Easy Way to Reach Us

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Leaders in Dehumidification... Worldwide

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