

Bry-Air[®]

Ethylene Scrubber (BES)

Setting New Benchmarks in Ethylene Removal Systems



Why Ethylene Removal is Important?

All fruits and vegetables release ethylene naturally during growth and ripening. Ethylene regulates many processes of plant growth and development. Despite its minuscule molecular weight, it is a powerful ripening agent in horticulture.

In current harvesting practices, various fruits and vegetables such as tomatoes and oranges are picked at the semi-ripe stage, and then stored in these huge cold storage and brought to ripeness by exposure to ethylene when market conditions are favourable. The ripening process is complex because it is not only accelerated by ethylene but it is also auto-catalytic producing additional ethylene as it proceeds. The sensitivity of fruits and vegetables to ethylene varies widely and so, when ethylene makes contact with the ethylene receptors, a reaction on the genetic level starts. It is also depends upon what stage of the life cycle the fruit and vegetable is in, as some fruits when exposed to prolonged cold storage require virtually ethylene-free conditions and in some cases even a small amount of ethylene in the exhaust may initiate premature ripening.



Hence, ethylene removal is important and since, it is a natural process and does not affect the property of fruits and vegetables it is all the more viable.

Bad Effects of Ethylene on Various Fruits and Vegetables



Presence of ethylene in amounts ranging from a few parts per billion (ppb) to a few parts per million (ppm) can reduce plant vigour, decrease life of various plant parts and reduce stock quality. 0.1 ppm is commonly considered the threshold level for ethylene action on plants.

Bry-Air Solution

Bry-Air Ethylene Scrubber (BES)

Based on the most advanced Honeycomb Filtration Technology

Bry-Air Ethylene Scrubber (BES) helps remove excess ethylene during fruits and vegetable storage. It removes the naturally released ethylene by the processes of adsorption and chemisorption.

Process of Ethylene Removal

Ethylene is slightly heavier than air. When Ethylene Scrubber is placed in the airflow on the floor of a closed room, it sucks air mixed with ethylene from its lower ducts and passes it through the specially designed Honeycomb Matrix chemical filter where it immediately neutralizes ethylene chemically and releases clean air outside having no bad effects on fruits and vegetables.



Unique Features



Easily replaceable filter cassettes



UL certified media for post harvest storage of food and vegetables



Low footprint



Energy saving because of low-pressure drop



Removes ethylene most effectively

Honeycomb Chemical Filter DRISORB™ Series

The Bry-Air Honeycomb Chemical filter, DRISORB™ series, is an 'in-situ' synthesised/deposited (insoluble metal silicate and activated carbon) macroporous desiccant honeycomb matrix, impregnated with choice of oxidising agents and alkaline solutions. It offers high efficiency and reliability. The filter is specially designed for higher airflow, therefore, requires lower surface area and has lower pressure drop.

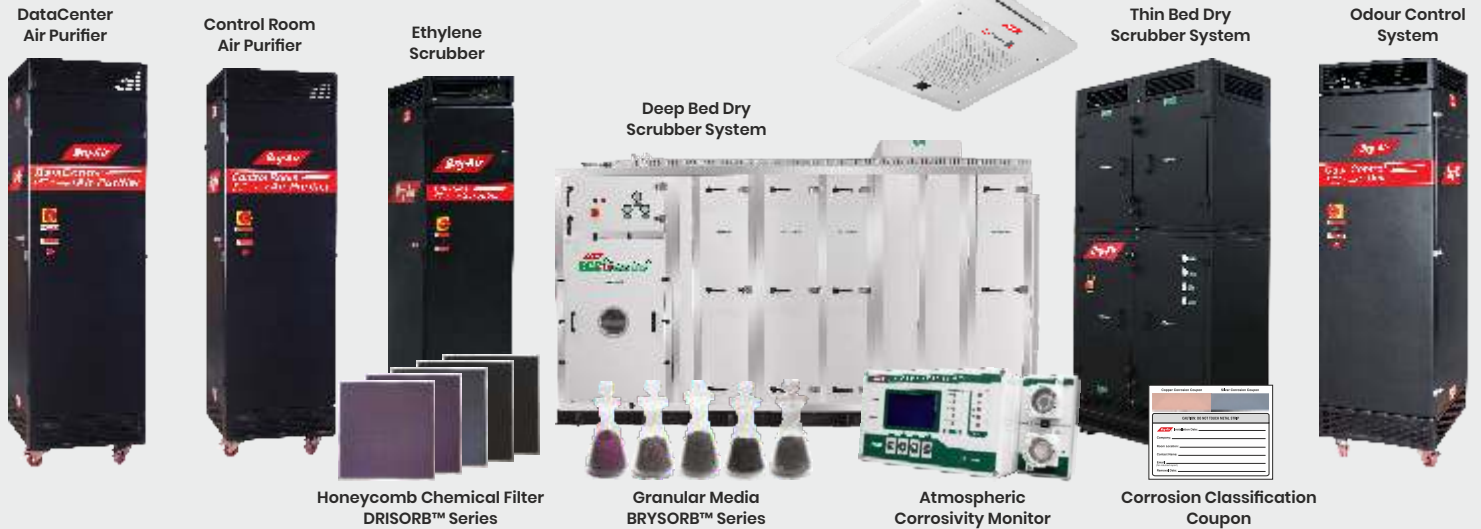


DRISORB™ 508

Granular Media - BRYSORB™ Series

	Media name	SO _x	NO _x	H ₂ S	Cl ₂	NH ₃	HF	O ₃	VOCs	ETHYLENE
	BRYSORB™ 508	✓	✓	✓						✓

Gas Phase Filtration Range



Other Product Divisions

Dehumidifier

for Moisture Free Air & Humidity Control

Plastic Auxiliaries

for Drying, Conveying, Blending, Heating & Cooling and Mould Dehumidification

Dry Rooms

Critical for Lithium Battery Production

Adsorption Chiller

use low grade waste heat for Energysmart Green Cooling

High Temperature Heat Recovery Wheel

To know more about media replacement or how to assess the remaining media life, write at gpfmedia@pahwa.com

Unlimited Applications



IT, Server Rooms and Data Centres



Oil and Gas Industry



Fertilizer and Chemical Plants



Pulp and Paper Industry



IVF & Healthcare Facilities



Museums, Libraries and Archives



Wastewater & Sewage Treatment Plants



Animal Research Labs



Food Processing and Fruit & Vegetable Storage



Plastic Manufacturing Industry



Rubber Processing Industry



Cement Industry



Iron and Steel Manufacturing Plants



Media Broadcasting Rooms



Semiconductor Assembly

...and many more



Leaders in Dehumidification... Worldwide

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