

Bry-Air[®]

Gas Phase Filtration

**Removes gaseous
contaminants**

CLEAN AIR

DATA CENTER AIR PURIFIER

CONTAMINATED AIR

Keep Your Data Centre Away From

Corrosive Gases

Data Centres, server rooms, control rooms are under serious threat due to the airborne molecular contamination. The presence of airborne molecular contamination in the form of corrosive gasses corrodes the electronic circuits and adversely affects the operations and longevity of sensitive and expensive electronic equipment.

Data Center Air Purifier (DAP)

DAP designed to shield electronic equipment from corrosive gasses. It effectively removes particulate and gaseous contaminants from confined spaces. It is meant for server rooms or control rooms where indoor environment is affected due to various pollutants sites in proximity.

It is self-contained, stand-alone, movable unit that re-circulates the air in an enclosed space.

Functions

- Effectively removes particulate matter
- Removes gaseous contamination
- Removes odour
- Supplies clear air

Features

- Energy efficient. Saves energy due to low pressure drop
- Self-contained unit
- Helps meet ISA71.04-2013 standard in data centres
- Standard variants available
- Customisation available
- FRP constructed body (corrosion resistant)



DRISORB™ - Honeycomb Chemical Filter

- Suitable impregnation to neutralise various gasses
- UL certified
- Easy to handle
- Stainless steel filter cassettes
- Tested as per ASHRAE 145.2 and ISO 1155-2 standards



Honeycomb Chemical Filter - DRISORB™ series

Removes gaseous contamination

Corrosive gasses emerging from nearby industrial areas, landfill sites and open drain

- | | | | |
|-------------------|--------------------|-------------------|-------------------|
| • PM10 | • PM5 | • NO _x | • SO _x |
| • Cl ₂ | • NH ₃ | • O ₃ | • HF |
| • VOCs | • H ₂ S | | |

Damage caused by harmful gases in Server/Control Rooms

- Increased contact resistance
- Leakage current and short circuits
- Deterioration of circuit lines and connectors
- Mechanical deterioration of printed circuit boards
- Leakage of EMC - shielding
- Creep Corrosion

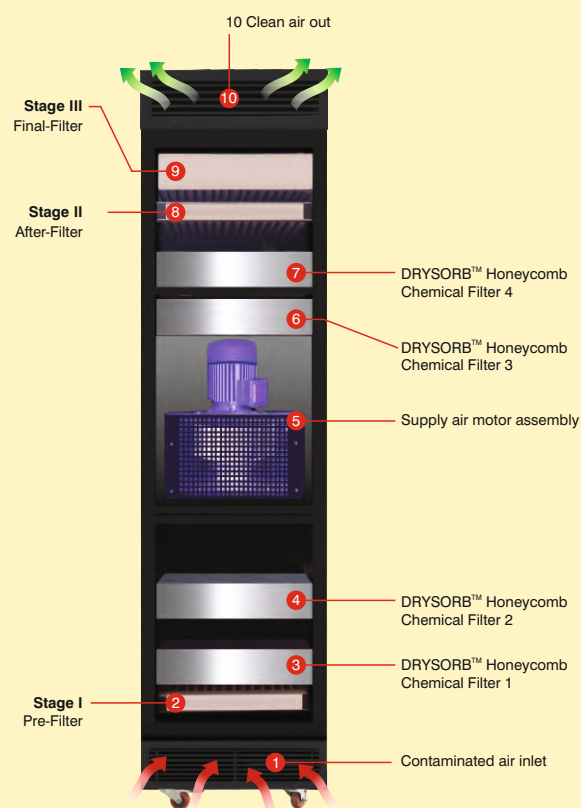
Technical Specification

Model Stages	Airflow		Dimensions HxWxD (mm)	Electric Load (Kw)	Empty Weight (Kgs.)
	CFM	CMH			
DAP-500-2	500	850	2050x550x590	0.75	165
DAP-500-4	500	850	2050x550x590	1.12	180
DAP-1000-2	1000	1700	2050x550x690	1.12	205
DAP-1000-4	1000	1700	2050x550x690	1.5	225
DAP-1500-2	1500	2550	2050x950x600	2.24	260
DAP-1500-4	1500	2550	2050x950x600	3.73	290
DAP-2000-2	2000	3400	2050x950x700	3.73	320
DAP-2000-4	2000	3400	2050x950x700	3.73	360

*EC fan, VFD, BMS controller (Optional)

How does it work?

As explained in diagram, at the stage I, the contaminated laden air enters through bottom grill and air is pre-filtered from larger particulates. At stage II, it is made to pass through the multiple beds of DRISORB™ chemical filters. The corrosive gasses are captured and neutralised in the filter by an adsorption and chemisorption process. At stage III, air is filtered again to remove sub-micron particulates. Eventually, the clean air is released from the top.



DAP internal view

Bry-Air® Gas Phase Filtration

Data Center Air Purifier



Control Room Air Purifier



Odour Control Unit



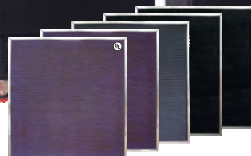
Deep Bed System



Thin Bed System



Honeycomb Chemical Filter - DRISORB™ series



Granular Media - BRYSORB™ series



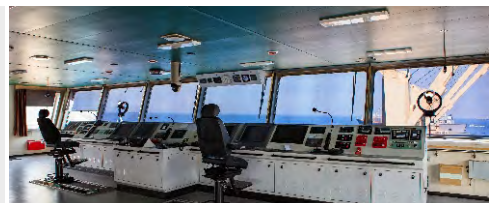
Atmospheric Corrosivity Monitor



Corrosion Classification Coupon



Key Application Areas



- Data Centers & Server Rooms
- Telecom Towers
- Museums & Libraries
- Sewage Treatment Plant
- Diagnostic Labs
- Animal Research Labs
- Mortuary Rooms

Bry-Air®

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