

Bry-Air[®]

Gas Phase Filtration

Removes gaseous contaminants

CLEAN AIR

Bry-Air
Control Room Air Purifier

CONTAMINATED AIR

CONTROL ROOM AIR PURIFIER

Keep Your Control Room Away From

Corrosive Gases

Control rooms and server 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.

Control Room Air Purifier

Control Room Air Purifier 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

- Saves energy due to low pressure drop
- Self-contained unit
- Helps meet ANSI/ISA 71.04-2013 standard in control rooms
- Standard variants available
- Customisation available
- FRP constructed body (corrosion resistant)



DRISORB™ - Honeycomb Chemical Filter

- High bulk density
- Suitable impregnation to neutralise corrosive gases
- Easy to handle
- UL-certified
- 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 or in-house (within the plant)

- PM10
- PM5
- NO_x
- SO_x
- Cl₂
- NH₃
- O₃
- HF
- VOCs
- H₂S

Damage Caused by Harmful Gases in Control/Server Rooms

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

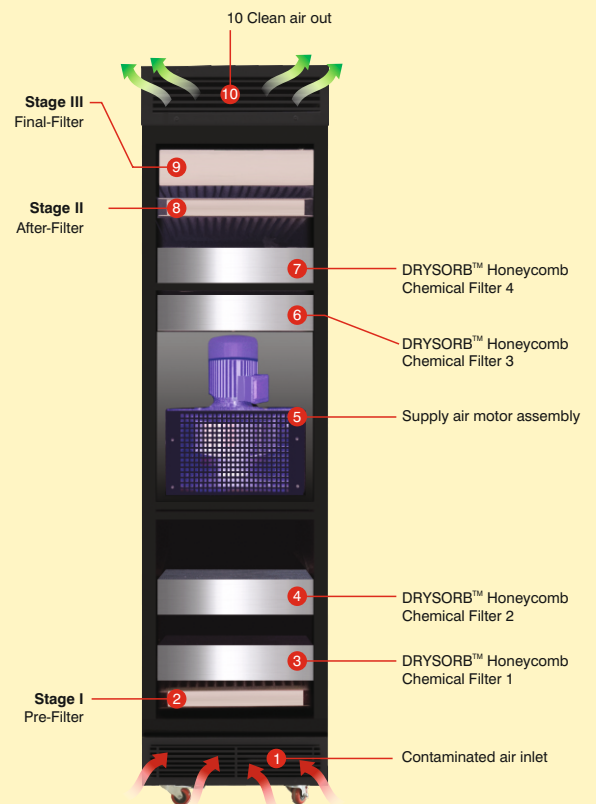
Technical Specification

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



Control Room Air Purifier-Internal view



Gas Phase Filtration Range



Key Application Areas



- Control Rooms and Server Rooms
- Telecom Towers
- Museums and Libraries
- Sewage Treatment Plant
- Oil and Petrochemical Refinery
- Paper and Pulp Industry
- Mortuary Rooms
- Fertilizer and Chemical Industry
- Healthcare Facility



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