

Spectra IAQ Series



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For effective removal of odors & contaminants

Occupants of buildings where people work, play, live or recuperate are increasingly facing problem related to odor, VOC and other hazardous gases in the air we breathe. Recent studies have shown that Indoor Air Quality in commercial buildings can sometimes be 20 times inferior than outdoor air. Contrary to popular belief, air inside a building can be more hazardous than the air outside.

Spectrum Filtration Pvt Ltd now introduces solutions to problems in the area of odor control, VOC abatement and other gaseous removal.

The Spectra IAQ is available in a wide range of standard filter sizes; they can be directly installed in an existing "Universal Holding Frame" filter bank. No expensive system modification is required to install these filters. When used in conjunction with "Spectra Pre" or "Spectra Fine" particulate removal filters, they ensure economical & effective removal of particulates, odors & gases.

Spectra IAQ filters are used to effectively remove odor associated with diesel fumes, hydrocarbons, tobacco smoke, body odors, cooking and Volatile organic compounds (VOC).

Some typical applications include :

- Office buildings
- Hospitals
- Schools & libraries
- Industrial Plants
- Auditoriums
- Instrumentation control rooms
- Airports
- Hotels

Size & performance data :

Nominal Size (mm)	Air Flow Capacity (CMH) @ 1.5 mtr/sec	Air Flow Capacity (CMH) @ 2.5 mtr/sec	Carbon Density (grams per mtr2)
610 x 610 x 50	2050	3400	3200
305 x 610 x 50	1025	1700	3200
500 x 500 x 50	1145	2400	3200

Notes

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|---|-------------------------------|--|
| 1 | Initial resistance | 6 mm wc @ 1.5 mtr/sec
15 mm wc @ 2.5 mtr/sec |
| 2 | Recommended Final Resistance | 30 mm wc |
| 3 | Activity Rating | Minimum 60% on carbon tetrachloride (CCI 4) at 25°C |
| 4 | Recommended Temperature Limit | 50°C. Operation above 50°C negatively affects the adsorption process |

Adsorptive Capacity For Vapor Contaminants

Category	Rating	Adsorptive Capacity and Weight Capacity, %	Average
1	High	20 to 50 %	35
2	Good	10 to 20 %	16
3	Moderate	Less than 15 %	8
4	Low	Usually to low to be effective**	

* Sufficient for most applications

** Impregnated carbon may be required if applicable

Substance	Level	Substance	Level
Carbon Monoxide	4	Nitroethane	1
Chlorine	2	Nitroglycerine	1
Hydrogen Sulfide*	2	Nitrogen Dioxide*	3
Naphtha (Coal Tar)	1	Nitromethane	1
Naphths (Petroleum)	1	Nitropropane	1
Naphthalene	1	Nitrotoluene	1
Nicotine	1	Nonane	1
Nitric Acid*	2	Sulfur Dioxide*	3
Nitrobenzene	1		



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