

Advance design and patented Photo-catalytic Filter in *InnoClean* 400 & 300 series

InnoClean 400 & 300 OdorVOC Series

IAiR Photo Catalytic Filter - Manufactured in Japan

Working principle and the characteristics of iAiR catalyst

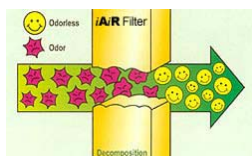
The iAiR catalyst is made in form of honeycomb shape, which is finished with a high active Manganese Dioxide (MnO₂). This feature provides low-pressure drop and excellent contact efficiency of our systems. As a result, the high deodorizing efficiency and low operating cost can be achieved.



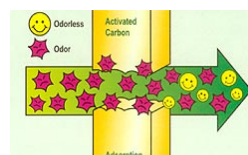
Catalytic odor and chemical gas removal uses a mechanism of oxidizing the unpleasant odor substance, and so decomposing it. This gives a higher performance and longer service life than other deodorizing methods.

Filter Media of iAiR

The filter is made of ceramic materials and formed in honeycomb shape with high cells density (350 cells/in²). The catalyst materials can be richly impregnated into the carrier by using the advanced Nano-technology. IAiR filter decomposes the odor and chemical gas through catalyst oxidation.



iAiR Catalytic Oxidizing method



Traditional carbon absorption method

	Advantages
Honeycomb structured	Low pressure drop and excellent contact efficiency
Inorganic fiber base	Incombustible Highly porous Light in weight
Catalytic oxidation	Decomposing unpleasant odor and chemical substance
Combined design	Few restrictions with regards to shape

Odor and Chemical Substance Reduction Efficiency

An Odor Assessment Test of the iAiR Odor Control System was performed by Odor Research Laboratory of the **Hong Kong Polytechnic University**.

The Odor reduction efficiency of treating synthetic odorous gas originated from biodegradable waste is more than **82.99%**.

And VOC removal tested by **Hong Kong Standards and Testing Centre** is more than **96.9%**

Catalytic Odor and chemical substance Removal Mechanism

iAiR filter employs catalytic oxidation to decompose the unpleasant odor substances. This gives a higher performance and longer service life than the adsorption method.

Catalytic Odor and chemical substance Control System

- Superior performance in decomposing combined odor through catalyst oxidation
- Reduce more than 82.99% of odor per pass (**Tested by Hong Kong Polytechnic University**)
- Reduce more than 96.9% of VOC per pass (**Tested by Hong Kong Standards and Testing Centre**)
- High efficient ultraviolet lamps to destroy viruses, bacteria and fungi
- Prominent longer service life and better deodorizing efficiency than traditional absorption method

Excellent Performance in Removing

- Acetaldehyde (either like irritating odor)
- Ammonia (irritating odor)
- Hydrogen Sulfide (rotton egg odor)
- Methyl Mercaptan (pickled radish odor)
- Methyl Sulfide (rotton cabbage)
- Ozone
- Trimethylamine (rotton fish)



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