

# VaporClean®

## VAPOR PHASE AIR FILTERS



- Maximized carbon surface area
- Increased efficiency and capacity
- Low initial static pressure
- Consistent carbon distribution
- Non-dusting media

The AAF VaporClean vapor phase adsorber filters are designed for removal of molecular contaminants at low concentration levels, while utilizing the proven technology of Dry Processed Carbon Composite Media (DPCC). These filters provide high-efficiency removal of multiple contaminants for applications within museums, archive storage facilities, airports, and semiconductor fabrication facilities.

### Technical Description

The carbon media is manufactured with a dry processed carbon composite of ultrafine 30 x 50 mesh activated carbon, with a minimum carbon tetrachloride activity of 90% per ASTM D-3467. These high efficiency carbon granules are thermally bonded to polyester nonwoven bicomponent fibers. The pleated media pack is contained within a 24-gauge corrosion-resistant steel casing and bonded with a polyimide hot melt adhesive to maintain rigidity and eliminate air bypass. Pleat spacing and alignment is maintained with high-impact polystyrene plastic separators installed on both air entering and leaving sides.

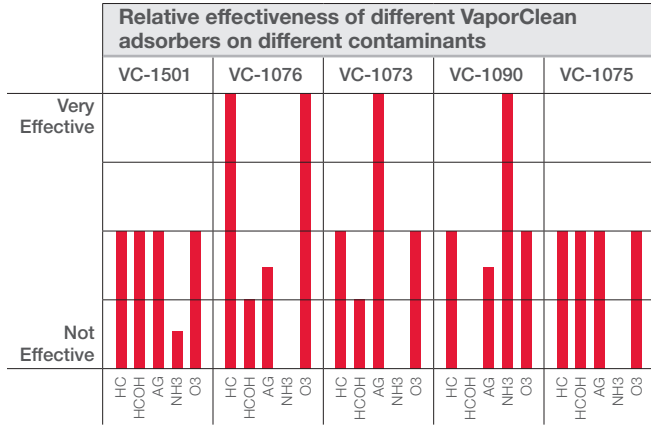
### Product Options

VaporClean filters are available in five contaminant specific DPCCs.

DPCC	Application
1501	Effective removal of gas mixtures consisting of aldehyde, acid gases, and hydrocarbons.
1076	Effective removal of ozone, hydrocarbons, and volatile organic compounds.
1073	Effective removal of acid gases, such as SO <sub>2</sub> and NO <sub>2</sub> .
1209	Multipurpose blend for both alkaline and acid gases.
1090	Effective removal of alkaline gases, such as ammonia and other light organic amine compounds.

# VaporClean® Filters

## Product Information



### Contaminant Matching

Match the VaporClean media type to the contaminant of concern

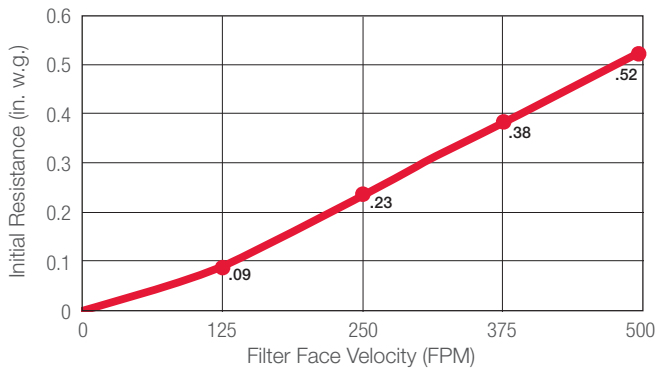
HC	Hydrocarbons
HCOH	Formaldehyde
AG	Acid Gases
NH <sub>3</sub>	Ammonia
O <sub>3</sub>	Ozone

### Application Media

1090	Animal Odors
1501	Diesel Exhaust
1501	Cooking Odors
1073	Museums
1075	Sewer Odors

## Performance Data

### Initial Resistance vs. Filter Face Velocity



The removal efficiency of the filter against contaminants is shown below.

Contaminant	Challenge Concentration	Efficiency	Capacity @ 50% Efficiency
Toluene	25 ppm	>90%	560 grams
SO <sub>2</sub>	30 ppm	>90%	60 grams
NO <sub>2</sub>	5 ppm	>70%	100 grams
Formaldehyde	500 ppb	>80%	4 grams



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AAF has a policy of continuous product research and improvement. We reserve the right to change design and specifications without notice.

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