

Vaporclean

The Flanders Vaporclean vapor phase adsorbers are designed for removal of molecular contaminants at low concentration levels while utilizing the proven technology of dry processed carbon composite media, (DPCC). The adsorbers 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. The high efficiency carbon granules are thermally bonded to polyester nonwoven bicomponent fibers. The pleated media pack is contained within a 24 ga 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.

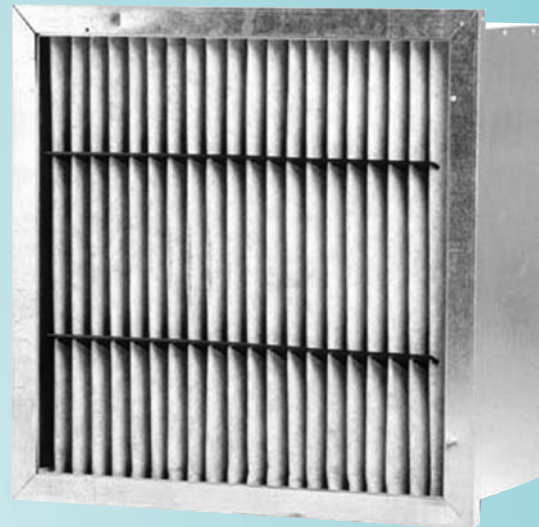
Product Options

The Vaporclean adsorbers are available with five contaminant specific dry processed carbon composites.

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

Important Features

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



Vaporclean Performance

The pressure drop of the Vaporclean is 0.35 inch w.g. at a face velocity of 500 fpm. The initial efficiency of the adsorber under the following conditions shall be met.

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

Contaminant Matching

Match the Vaporclean media type to the contaminant of concern.

HC
Hydrocarbons
HCOH Formaldehyde
AG
Gases
NH₃
Ammonia
O₃

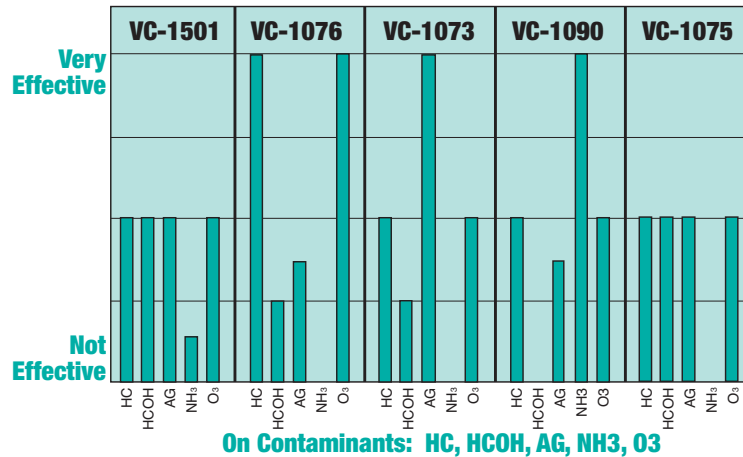
Application Media
Animal Odors1090
Diesel Exhaust
Cooking Odors
Museums 1073
Sewer Odors1075

Acid

Ozone

1501
1501

Relative Effectiveness of Different Vaporclean Adsorbers on Different Contaminants



Sample Model Number

VC	1501	17	01	2424	GD
Vaporclean	Media type	24 ga	Frame Style	Size	Gasket

VC-1501-17-01-2424-GD

Represents a Vaporclean, 24 ga corrosion resistant steel frame, single header style, gasketed downstream, with 1501 media. Actual filter size is 23-3/8 x 23-3/8 x 11-1/2"

NOTE:

1. The 17-01 indicates a header style filter and 17-00 indicates a box style filter. Other frame materials, frame styles and sizes are available. Consult the factory.
2. Maximum operating temperature is 120°F.
3. Frame Style: 01 for Single Header or 00 for Box Style.
4. Gasket: 00 for no gasket or GU for gasket upstream or GD for gasket downstream.

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