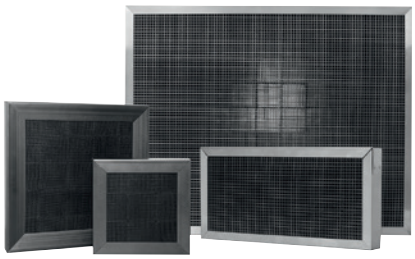
VILEDON HM MODULES

WITH VERSACOMB MEDIA

MODULE SIZE* [mm]	WEIGHT [kg]
289 × 594 × 44	2.2
594 × 594 × 44	4.3
594 × 594 × 99	9.3
495 × 495 × 99	7.7
348 × 348 × 152	5.8



The description

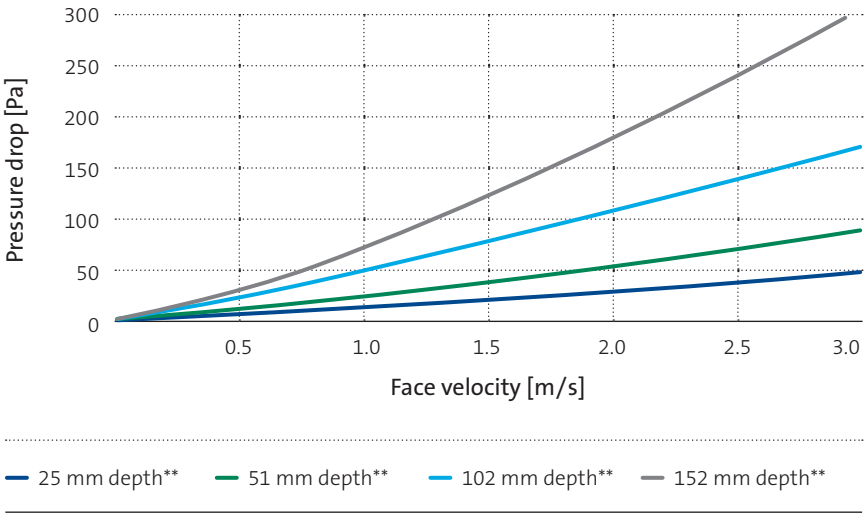
The Viledon® HM® Modules are an assembly of Versacomb™ media housed in either a plastic or metallic frame for removing gas-phase contaminants from outdoor or recirculated air. The module is available in nominal depths of 25, 51, 102, 152 mm as standard. Viledon® HM® Modules are designed to fit in a side-access filter track or a Type 8 filter frame, and are available with or without a header.

The special features and benefits

- Provides protection from gas-phase contaminants.
- Can be installed in a standard filter track.
- Can be mounted horizontally or vertically.
- Frame Options: Stainless steel, aluminum and plastic are available for most sizes.
- Can be used at face velocities up to 2.5 m/s.
- Can be used in ambient conditions up to 70 °C and 99 % RH non-condensing.
- Easy to install (no need for a vacuum trucks).
- Economical and energy-efficient.

The application

Refineries, petrochemical plants, electric centers, paper mills, wastewater treatment plants, museums, archives, hospitals, data centers, break rooms, laboratories, commercial and industrial offices.



* Actual size without gasket; Example module sizes – others available

** Standard version with 200 CPSI (= cells per square inch)

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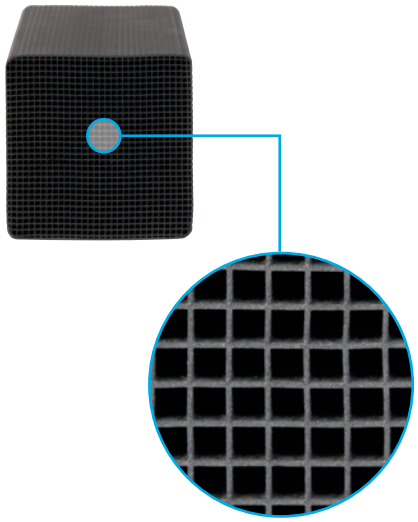
VERSACOMB MEDIA

DETAILED INFORMATION ABOUT OUR REVOLUTIONARY TECHNOLOGY

The description
Versacomb™ media is the technology inside Freudenberg's revolutionary Honeycomb Matrix (HM®) activated carbon modules. This media represents the future shape of air purification technology. The media has parallel square channels that pass through the block to provide a pathway for fluid flow. These channels are separated by walls of carbon powder, less than 1 mm thick, that are held in place by ceramic binders. This structure greatly reduces the maximum distance between the carbon and the bulk flow of the process air. The reduced length allows highly efficient interaction between the carbon and the air during operation at elevated velocities.

The material
Versacomb™ media can be installed without the need for any special safety precautions. Consumed media should be disposed of in accordance with local guidelines, but in general, Versacomb™ media can be disposed of like any other refuse.

The performance
Based on the contaminants of concern and their concentration levels, the media life for Versacomb™ media can be predicted. In addition, the media can be engineered on a job-by-job basis to meet specific performance requirements such as pressure drop, maximum face velocity and residence time.



PHYSICAL PROPERTIES		
Density	g/cm³	0.43
Crush strength	kg/cm²	minimum 21
Dust-free under normal operation		

REMOVAL CAPACITY FOR		
Hydrogen sulfide (H_2S) of own weight*	%	40
Sulfur dioxide (SO_2) of own weight*	%	15
Xylene of own weight*	%	13
Toluene of own weight*	%	9

OPERATING RANGE		
Temperature	°C	up to 260
Humidity	%	non-condensing, up to 99
Face velocity	m/s	> 2.5
Orientation		horizontal or vertical

* Tested in broad conformity with ASTM International Standard D6646-03

** Third party testing at 0.2 m/s and 75 ppm Cl_2 inlet concentration to 5 ppm breakthrough with 38 mm media length resulted in 4% chlorine capacity by weight. Further testing is being performed.

CONTAMINANT GASES

Versacomb™ media is especially recommended for all contaminant gases highlighted in lightblue ●. Choose other media for all contaminant gases marked in darkblue ●.

1. Hydrogen sulfide (H_2S)
2. Sulfur dioxide (SO_2)
3. Other oxides of sulfur
4. Nitrogen oxides (NO_x)
5. Chlorine
6. Ammonia
7. Formaldehyde
8. Hydrocarbons
9. Mercaptans
10. Low molecular weight organic acids
11. Volatile organic compounds (VOCs)

If you require information and pellet selection assistance for contaminant gases not listed here, please consult your Viledon® partner.

The figures given are mean values subject to tolerances due to normal production fluctuations. Our explicit written confirmation is always required for the correctness and applicability of the information involved in any particular case. Subject to technical alterations.

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