

VILEDON HM VAPOR ADSORBER SERIES 500HM



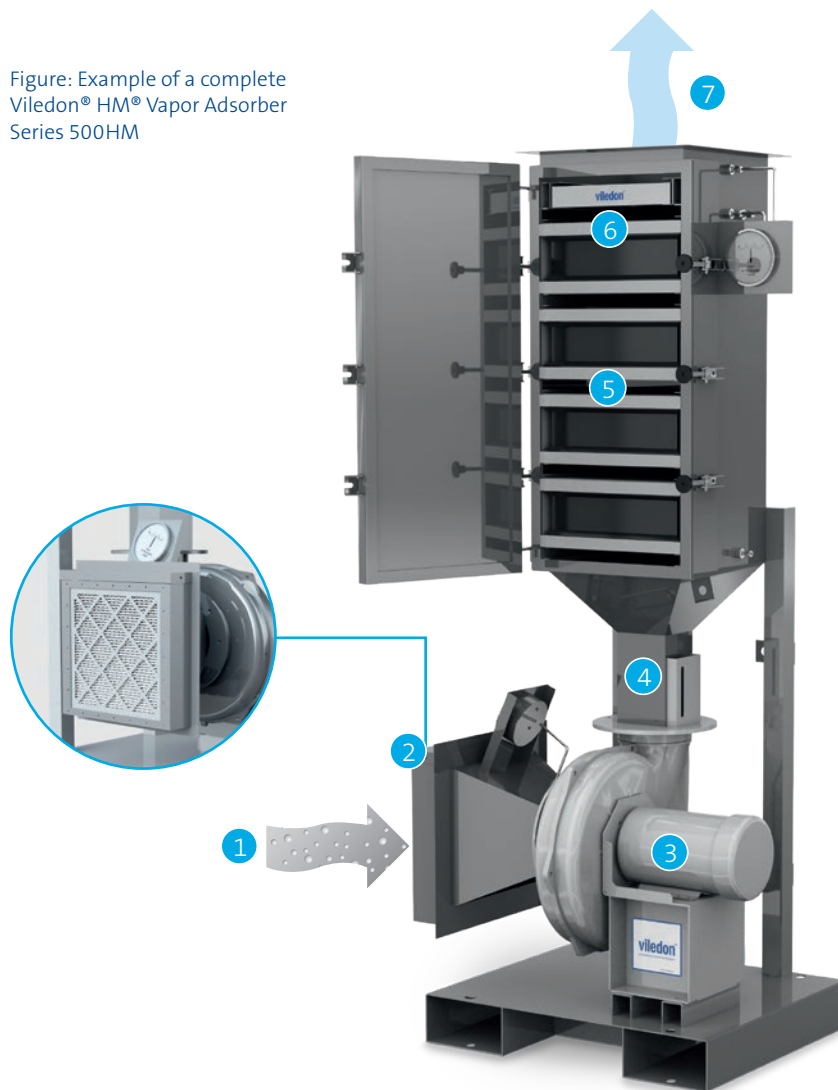
ENERGY-EFFICIENT SYSTEM SOLUTIONS FOR ENHANCED CORROSION CONTROL

Many industrial processes generate contaminant gases that can cause corrosion. Even minor damage to electronic components can have serious consequences, e.g. fault signals, unplanned downtime, high repair costs.

The Viledon® HM® Vapor Adsorber is a complete, skid-mounted system used to control organic and inorganic gaseous contaminants by activated carbon adsorption and chemical reaction. It provides highly purified makeup air for pressurizing control rooms to prevent the intrusion of contaminated air.

Each system is pre-engineered and includes a fan, a particulate pre-filter, four passes of honeycomb matrix (HM®) activated carbon modules with Versacomb™ media and a particulate final filter. The Viledon® HM® Vapor Adsorber ships completely assembled unless otherwise requested or as dictated by shipping limitations or job site requirements.

Figure: Example of a complete Viledon® HM® Vapor Adsorber Series 500HM



How Viledon® HM® Vapor Adsorber Series 500HM work

- 1 Intake of contaminated outside air
- 2 Pre-filtration
Viledon® MERV8 filter
- 3 Mill & chemical duty motor
- 4 Manually actuated damper which adjusts the airflow
- 5 3–4 passes of HM® modules with Versacomb™ media
- 6 Fine filtration
Two-stage Viledon® MERV8 filters
- 7 Purified air
free of fine particles and contaminant gases

TECHNICAL DATA FOR HM VAPOR ADSORBER SERIES 500HM

SYSTEM		
Size (W×L×H)	in mm	24.0×28.75×80.5 610×730×2,045

MEDIA		
HONEYCOMB MATRIX MODULE		
Volume	ft ³ m ³	2.0 .06
Weight	lb kg	64 29
Boxes	1 module per box	4

ADSORBER WEIGHT		
Empty	lb kg	325 147
With HM [®] modules	lb kg	389 176

AIR FLOW		
Volume	ft ³ /min m ³ /h	500 859
Across HM [®] module	ft /min m/s	500 2.54
Residence time	sec	0.24

BLOWER		
Model		Cincinnati PB-12A
Rated air flow	ft ³ /min m ³ /h	500 859
Total static pressure	in w.g. Pa	6.5 1,619
Impeller diameter	in mm	12.0 305
Drive system		direct drive
Fan construction		epoxy-phenolic coated steel

MOTOR		
Power	hp kW	1.5 1.12
Frame size	T	143
Speed	rpm	3,450
Consumed power	hp kW	.9 .68
Efficiency	V Std.	premium 230/460 – 575 optional
Enclosure		TEFC

PARTICULATE FILTER		
Size pre-filter (W×L×H)	in mm	(1) 12×12×2 305×305×51
Size fine filter (W×L×H)	in mm	(1) 12×12×2 305×305×51

The information or figures given are subject to tolerances due to normal production fluctuations. Our explicit written confirmation is required in each case for the correctness of the information. Subject to technical alterations. You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility.

FREUDENBERG FILTRATION TECHNOLOGIES

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www.freudenberg-filter.com

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