

Extended Surface V-Style Filter

MERV 13



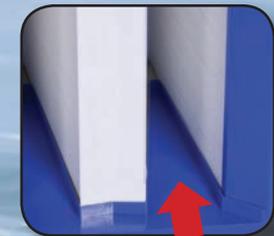
V-Shaped pleats eliminates obstruction to air flow for lower pressure drop.



All plastic construction eliminates corrosion



Patented offset optimizes airflow when used with prefilters

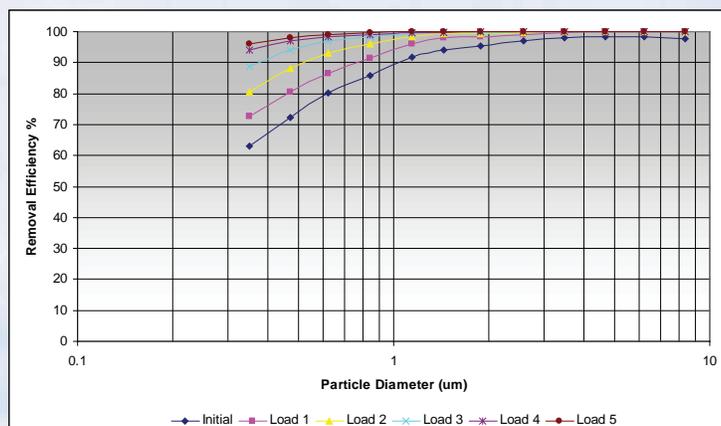


The **viledon** MV Extended Surface Filter meets all requirements of standard air handling systems as to frame dimensions, depth, and filter performance. viledon's filtration superiority is known as the **viledon difference**.

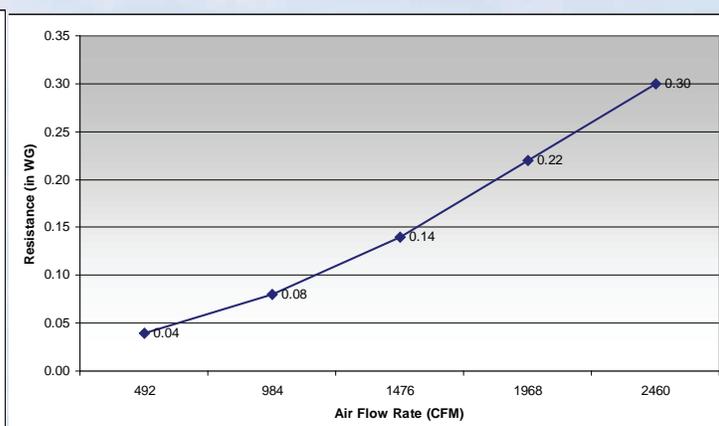
- ▶ viledon filters have been developed specifically for intake, exhaust, and recirculated air filtration HVAC systems that have stringent requirements for clean air quality and cost efficiency.
- ▶ Patented 1" recess design for "V" style filters drastically lowers pressure drop when used in conjunction with pleated or panel style pre-filters on the face of the filter. The patented 1" recess provides full utilization of the entire prefilter media area.
- ▶ The MV85 V-Banks are potted into a high strength all plastic frame. This assures the user of maximum operational dependability and consistent filtration throughout each specific application.
- ▶ The sturdy construction assures optimum performance under turbulent flow conditions and load changes. This means that the risk of particle or fiber shedding is practically eliminated.
- ▶ viledon develops and manufactures its own organic synthetic filter media.
- ▶ Fine, progressively structured, thermally bonded media provide exceptionally low pressure drop at high efficiency levels.

- ▶ Media is resistant to physical damage from moisture and chemicals.
- ▶ The light weight of the MV provides easy handling and reduced cost for transport, shipping and disposal.
- ▶ The entire filter element is free of metals, halogens, and glass fibers. The filter element is also corrosion proof and fully incinerable. These features allow for lower disposal costs.
- ▶ Moisture-resistant up to 100% relative humidity.
- ▶ Temperature Resistance: Continuous 160°F, Peaks 175°F.
- ▶ UL 900 Class 2
- ▶ Covered by US Patent No 6447566. (1" Recess)
- ▶ Microbial Resistance level 4 (ASTM D632G)

Particle Removal Efficiency



Resistance Curve



ASHRAE 52.2 09-288A

Performance	Unit	MV85
Rated Air Flow	CFM	1968
Initial Resistance	"w.g.	.22
Final Resistance	"w.g.	1.50
MERV@1968		13
ASHRAE 52.1 Equivalent Efficiency*	%	80-90%

*Ref. Ashrae 2008 Handbook Chpt.28 Sec. 11

ADDITIONAL DATA

Performance	Unit	MV85
Burst Strength	"w.g.	>25

MV 85 Characteristic Chart

Characteristics	unit	1/1 (24x24)	1/2 (12x24)	5/5 (20x20)	5/6 (20x24)
Header Size	in.	23-3/8x23-3/8	11-3/8x23-3/8	19-3/8x19-3/8	19-3/8x23-3/8
Depth 1" Recess	in.	12-1/2	12-1/2	N/A	12-1/2
Depth Non-Recess	in.	11-1/2	11-1/2	11-1/2	11-1/2
Weight	lb.	10	5.0	6.5	8.3
Media Area	ft ²	130.7	57.48	76.76	106.24

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.

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