VISKON-AIRE
Air Filter Products

VR-1 Self-Sealing Panel Filter

Viskon-Aire VR-1 is manufactured from high quality synthetic polyester resin, the media is progressively structured and the fibers are thermally bonded to eliminate fiber migration. The media is treated with a proprietary tackifying process that treats all of the fibers to ensure the capture and retention of dirt particles. The VR-1 media utilizes the perfect balance between efficiency and pressure drop to optimize performance over the operation.

The Viskon-Aire VR-1 Self-Sealing Panel Filter can be used to upgrade surface finishing environments that require *dust free particles.* It can be used in Crossdraft booths as well as Downdraft Booths that bake.

The Viskon-Aire VR-1 has been tested to ASHRAE 52.2-2017 test standard.

Performance	Results
Pressure Drop @ 100 FPM	0.12" w.g. (30 Pa)
5µm Particle Efficiency:	>80%
Particle Migration Test Class:	S0 Test Class >5 µm
ASHRAE 52.2-2017	ASHRAE MERV 7
Media Thickness:	.72" (18mm)
Media Weight:	352 grams/m^2

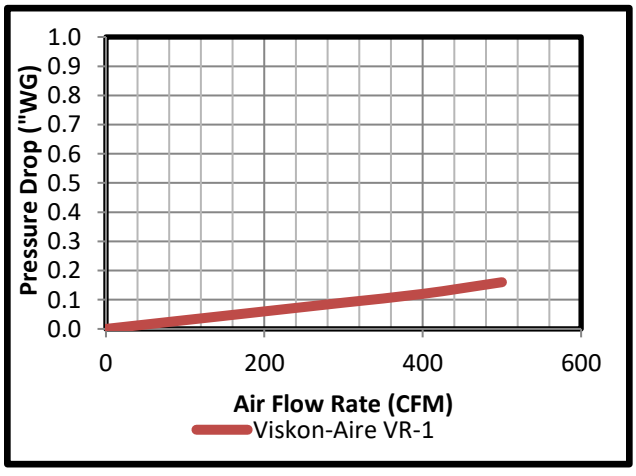
MERV 7

VR-1 Self-Sealing Panel Filter Benefits:

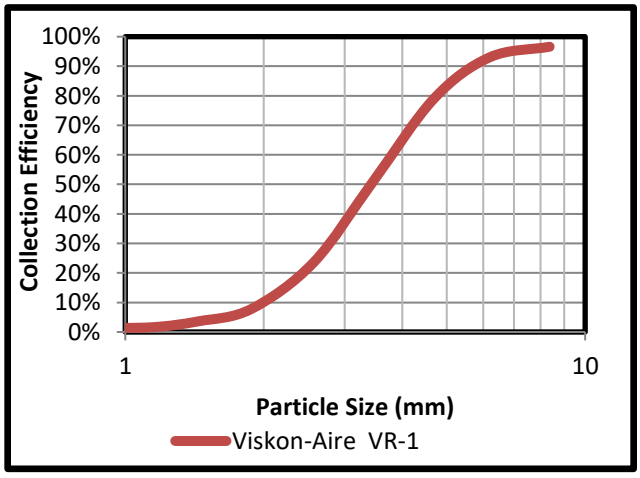
- *100% efficiency on 5µm particles (PMT Test)*
- *Progressive media structure*
- *Strong particle retention*
- *Self-extinguishing media*
- *100% RH resistance*
- *Continuous Temperature 212°F (60°C) Peaks 250°F*

S0 CLASS (PMT)

Pressure Drop Curve



Particle Size Efficiency



"When Clean Air is Critical"

VISKON-AIRE®
Air Filter Products

Performance Technical Data:

Viskon-Aire* Model Number	MERV Rating EN779	Capacity FPM (m^3/hr)	Initial Pressure Drop inches w.g. (Pa)	Particle Migration Test (PMT)
VR-1	7 (G4)	100 FPM (100 M^3/min	0.12 w.g. (30 Pa)	SO 99.82% 10µm SO 99.82% 5µm

Performance Data Notes for Viskon-Aire Filters:*

1. Pressure drop represents inches of water (0.12" w.g.) at 100 FPM with the filter being in a clean condition. Final pressure drop is recommended to 1.0" w.g., however, it is recommended that the pressure drop change out point be selected on the basis of the loading of the pads during the operational life of the filter.
2. Efficiency is based upon ASHRAE Test Standard 52.2-2017
3. The Particle Migration Test (PMT) is conducted in a vertical test duct to better simulate actual operating conditions as found in a downdraft spray booth or prep station. Particle counting is conducted downstream while the pad is in a horizontal position.

Viskon-Aire Particle Migration Penetration Testing (PMT)

When *"Clean Air is Critical"* Viskon-Aire tests their diffusion filters in two ways to ensure that you have the best product on the market. To ensure *"Dust Free Finishes"* Viskon-Aire has two test protocols, ASHRAE 52.2-2017 as well as the *Particle Migration Test (PMT)* which tests the retention behavior of our product offerings in the surface treatment market. The PMT test stresses the diffusion pad or panel with AlO_2 with free running white aluminum oxide particles (ASTM F7-95 (2011) as the challenge aerosol using a vertical test duct to determine penetration efficiency of the pad or panel filter, using 52.2 based protocols conducted by independent laboratories.

Of the two tests, the Particle Migration Test (PMT) simulates the actual operating conditions found in todays modern automotive spraybooths, whether automotive assembly plants or autobody shops, vibrations of the diffusion media over time can cause particles to migrate through the media structure damaging your surface finish. Viskon-Aire's VR-1 progressively structured media and tackification process ensures the retention of collected particulate and the protection of your painted parts with a dust free finish.

Product Shipping & Packaging Information:

Filter Size	Size (mm)	Weight Lbs	Packaging	Carton Dimensions Inches (mm)
VR-1 Panel Filters 300-002	20" x 20" x 1" (508x508x25.6)	16	20/case	22.5 x 14.5 x 22.5
VR-1 Panel Filters 300-003	20" x 25" x 1" (508x635x25.6)	17	16/case	22.5 x 14.5 x 27.5
VR-1 Panel Filters 300-120	20" x 48" x 1" (508x1219x25.6)	14	8/case	22.5 x 14.5 x 27.5
Note: All VR-1 standard Self-Seal Panel Filters are available, ask your Viskon-Aire representative				

Viskon-Aire Corporation has a policy of continuous research & development and reserves the right to change the design and specifications without notice.

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