Air Filters, Inc.

8282 Warren Road
Houston, TX 77040

Tel: 713-896-8901 1-800.667.8563 Fax: 713-896-8912
www.airfilterusa.com

2000 CFM Version to replace standard Hi-Capacity HEPA's with aluminum separators.

POWERFLO Max™ TURBO-V
BLACK BOX

High Capacity HEPA Filter

99.97%, 99.99%

Air Filters, Inc. POWERFLO Max™ V-Cell Applications Include:

- Medical Facilities
- Pharmaceutical
- Semiconductor Facilities
- Food Processing Plants
- Shooting Ranges
- Many other applications requiring ultra clean air and critical performance

General Description

Air Filters, Inc. POWERFLO Max™ V-Cell HEPA is a V-bank HEPA filter is designed to provide high efficiency HEPA grade performance for high airflow applications at significantly low pressure drop and more than double the media surface area of conventional box style filters.

Product Construction

The POWERFLO Max™ V-Cell HEPA filters are manufactured with wet-laid water resistant micro fiberglass media. The media is formed into a pack using a hot melt separator and arranged in a V-bank configuration. There are ten individual mini-pleat packs sealed on all four sides to the frame with a two-part urethane.

The frame is constructed of ABS (Acrylonitrile Butadiene Styrene) plastic making it totally incinerable. The vertical supports struts shall be constructed of the same material. The vertical supports are fastened to the frame without the use of any mechanical fasteners. The vertical supports act as sealing surface of the mini-pleat packs.

Each frame is supplied with a 1/4" x 1/2" black neoprene gasket attached to the frame with an adhesive to ensure a leak-free seal.

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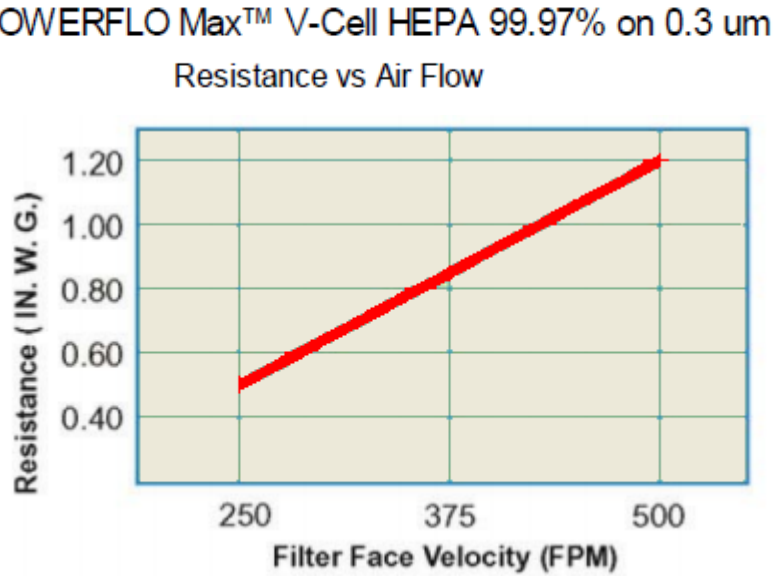
Performance Data Notes:

The POWERFLO Max™ V-Cell HEPA filter offers HEPA efficiency at significantly low pressure drop for HVAC systems supplying air to critical areas.

Chart illustrates the POWERFLO Max™ V-Cell HEPA pressure drop as function of airflow rate for gasket seal design.



Model Number	Nominal Size	Actual Size	Media Area	Rated Air Flow
HEPA-5V-242412PFBG2-S/BOC	24 x 24 x 12	24 x 24 x 11.5”	314 Sq. ft.	2000
HEPA-5V-122412PFBG2-S/BOC	12 x 24 x 12	12 x 24x 11.5”	128 Sq. ft.	1000
HEPA-5V-242412PFBUG2-S/BOC	24 x 24 x 12	23.3 x 23.3 x 11.5”	291 Sq. ft.	1950
HEPA-5V-122412PFBUG2-S/BOC	12 x 24 x 12	11.3 x 23.3 x 11.5”	121 Sq. ft	950

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Specifications

1.0 General

1.1 - Air filters shall be EPA/HEPA grade filters consisting of pleated media packs assembled in a V-bank configuration, polyurethane sealant, ABS plastic enclosure and with filter to holding mechanism sealing gasket.
1.2 - Sizes shall be as noted on enclosed drawings or other supporting materials.
1.3 - Weight shall be approx. 32lbs.

2.0 Construction

2.1 - Filter media shall be a microfiber glass mat formed into individual mini-pleats separated by thermo plastic separators into a pleat-in-pleat V-bank design.
2.2 - The media packs shall be potted into the enclosing frame with fire retardant polyurethane sealant.
2.3 - An enclosing frame of ABS plastic shall form a rugged and durable enclosure. The enclosing frame shall include two integral handles to facilitate filter alignment and ease of installation. The sides shall include integral frame support bridging to increase filter enclosure rigidity. The enclosure shall also be capable of withstanding 30 inch-pounds of clamping torque when measured from the air-entering side to ensure filter to frame seal.
2.4 - A seamless sealing gasket shall be included on the downstream side of the filter to form a positive seal upon installation.

3.0 Performance

3.1 - Filter efficiency at 0.3 micron shall be (99.97%-99.999)* when evaluated according to EN1822:2009 for applicable type. Each filter shall be labeled as to tested performance based on most penetrating particle size. EN 1822
(Efficiency @ MPPS):H13(≥99,95%), H14(≥99,995%)
3.2 - Initial resistance shall not exceed 1.0" to 1.25"w.c. at rated capacity.
3.3 - Each filter shall include a Certificate of Conformance noting rated airflow, tested airflow and tested efficiency.

* Items in parentheses ( ) require selection.
Dimensions are actual and do not include gasket.
Maximum operating temperature 160° F (70° C), 100% RH.