THE WORLD LEADER IN CLEAN AIR SOLUTIONS

# AstroCel® III Aero



## LIGHTWEIGHT HEPA FILTRATION

### Why lightweight HEPA filters matter:

- Reduced installation effort and handling strain
- Lower transportation and shipping costs
- Easier filter changeouts in large systems
- High-efficiency filtration for critical environments
- Customizable to fit your system

### Specifications:

- 99.99% efficiency at 0.3 µm
- Lightweight high-impact polymer frame construction
- Up to 40% lighter than traditional metal-frame filters
- UL 900 Classified
- Fully incinerable and chemical resistant construction

### Typical Applications:

- Healthcare facilities
- Pharmaceutical manufacturing
- Semiconductor and microelectronics facilities
- Cleanrooms and controlled environments
- Commercial and industrial HVAC systems
- Data centers and mission-critical facilities

### High-Efficiency Filtration with Lightweight Construction

The AstroCel III Aero is a lightweight, high-performance V-bank HEPA filter designed as an alternative to traditional metal-frame HEPA filters. Combining proven AstroCel filtration performance with the handling advantages of a modern polymer frame, it delivers dependable particulate control, high airflow capacity, and reduced installation effort.

Weighing up to 40% less than comparable metal-frame filters, the AstroCel III Aero is easier to carry through mechanical rooms and up rooftop access points, reducing the burden on maintenance personnel during installation and filter changeouts.

Filling the gap between low-cost imported plastic-frame filters and premium specialty HEPA products, the AstroCel III Aero features a robust injection-molded polymer frame designed to provide greater rigidity than thin, flexible plastic-frame alternatives. This helps resist racking and twisting during normal handling and helps maintain seal integrity. The result is the performance, reliability, and value expected from the AstroCel line of products.

### Designed for North American Applications

Engineered specifically for the North American market, the AstroCel III Aero provides a lightweight, high-performance HEPA filtration solution without compromising compliance or reliability. AstroCel III Aero is UL 900 Classified, supporting compliance with applicable HVAC fire safety requirements, including NFPA 90A for commercial systems supplying air to occupied spaces.

### Low Pressure Drop for Energy Savings

The V-bank configuration maximizes available media area to support high airflow capacity with lower resistance. Its low pressure drop combined with high dust holding capacity helps reduce fan energy consumption, extend filter life, minimize changeouts, and lower overall operating costs.

### Effective Protection Against Submicron Particles

The AstroCel III Aero delivers 99.99% efficiency at 0.3 µm, providing effective mitigation of submicron airborne particles in critical environments. The high-efficiency microglass media helps protect sensitive processes, equipment, and occupied spaces from airborne contamination.

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## Optimized for Retrofit Applications



The AstroCel III Aero is designed as a direct replacement for many existing V-bank HEPA filter installations, helping facilities upgrade or replace filters without major system modifications. Its lightweight construction and high-airflow design simplify maintenance while maintaining the filtration performance required in critical applications.

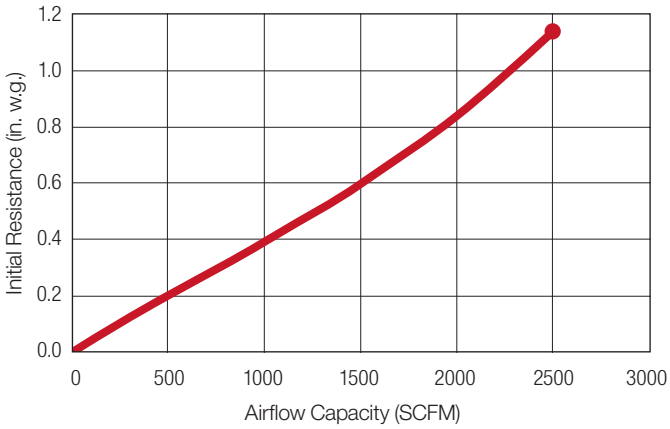
- Compatible with existing V-bank HEPA applications
- Supports high airflow requirements
- Simplifies ongoing maintenance and filter changeouts

## Product Information – Standard Sizes

| Size in Inches | Rated Airflow Capacity (CFM) | Rated Initial Resistance (in. w.g.) |
|---|---|---|
| 24 x 24 x 11.5 | 2400 (600 FPM) | 1.1 |
| 12 x 24 x 11.5 | 1200 (600 FPM) | 1.1 |
| 23.375 x 23.375 x 11.5 | 2350 (618 FPM) | 1.1 |
| 11.375 x 23.375 x 11.5 | 1175 (639 FPM) | 1.1 |

*Efficiency for all models is 99.99% @ 0.3 micron.*
*Dimensions are actual and do not include gasket.*

## Initial Resistance vs Airflow Capacity




*Performance data is based on AstroCel III Aero 24" x 24" x 11.5" gasket seal filter.*

**Maximum Operating Temperature**
160˚F (70˚C).

**Underwriters Laboratories Classification**
AstroCel III Aero filters are UL Classificed in accordance with UL Standard 900

*AstroCel® is a registered trademark of AAF International in the U.S. and other countries.*

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