



*Better Air is Our Business®*

## **AmericanAirFilter®**

### BioCel® M-Pak

#### **High Efficiency Extended Surface Air Filter**

- *A new 6" depth filter with the same media area and performance as 12"-deep filters*
- *Available in MERV 16*
- *Space-saving design; reduces freight, storage, and handling costs*
- *Sturdy high-impact polystyrene cell sides enclose a fixed media pack*
- *Fully incinerable*

AAF is proud to introduce another innovation in air filtration — BioCel® M-Pak. This unique filter offers the same media area as the traditional BioCel 12"-deep filter in a 6" deep design. The M-Pak delivers comparable efficiency, pressure drop, and overall performance in a much smaller package.

#### **High Efficiency — Low Resistance**

The air cleaning efficiency of the BioCel M-Pak is significantly higher than that of 90-95% ASHRAE efficiency filters. BioCel M-Pak exceeds the maximum efficiency of 98% which can be measured by ASHRAE Standard 52.1 test standard.

Rated 95% on 0.3  $\mu\text{m}$  particles and MERV 16 by ASHRAE Standard 52.2. BioCel M-Pak has the advantage of a much lower pressure drop than a typical HEPA filter (0.36" versus 1.0" wg at 250 fpm).

This compact, lightweight filter will withstand operating temperatures to 176°F/80°C, if recommended final resistance is not exceeded.

To maximize filter life, use BioCel M-Pak with high quality AAF prefilters.



#### **Applications**

BioCel M-Pak is designed primarily to remove airborne biological contaminants in hospital critical areas and food and pharmaceutical processing plants. It is engineered to meet the exacting requirements of precision manufacturing operations and laboratories where very high efficiency filtration of fine particulate matter is necessary.

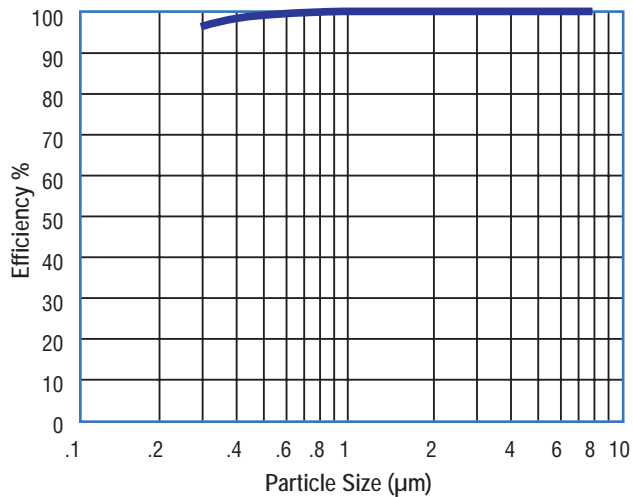
#### **Cost-Saving Design**

Due to the smaller footprint of the M-Pak, less space is required for storage. M-Pak filters are approximately 50% lighter than conventional 12"-deep filters that have metal cell sides. Easy handling means reduced maintenance costs and time savings. Disposal costs are also reduced, as two M-Pak's can be disposed of in the space of one 12"-deep filter. Constructed without metal components, the M-Pak is completely incinerable.

## BioCel® M-Pak

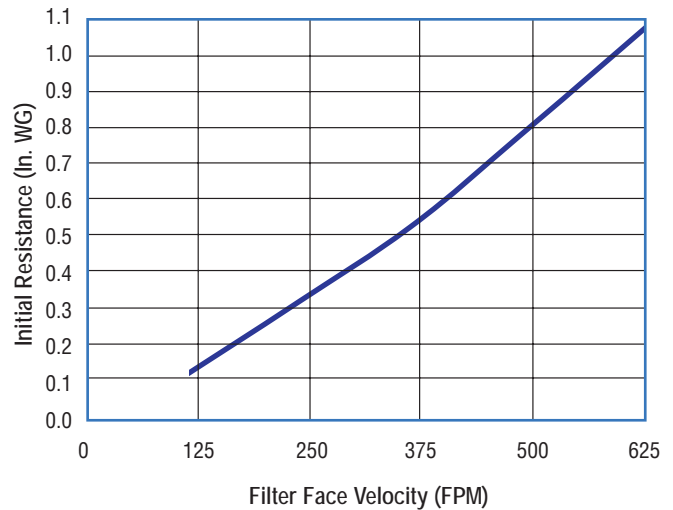
### Performance Data

Composite Minimum Efficiency Curve



Tested in accordance with ASHRAE Standard 52.2-1999

Initial Resistance vs. Filter Face Velocity



Filters are rated at 500 FPM filter face velocity. Recommended final resistance for all BioCel M-Pak filters is 2" w.g.

### Specifications

Max. Operating Temperature: 176°F/80°C

Media: High-efficiency, moisture resistant glass fiber

Cell Sides: High-impact polystyrene (HIPS)

Separators: Hot-melt glue bead

Gaskets: Available on request

Efficiency: Rated 95% on 0.3µm particles and MERV 16 by ASHRAE Standard 52.2

### Underwriters Laboratories Classification

BioCel M-Pak filters are classified U.L. Class 2. Testing was performed according to U.L. Standard 900.

### Metric Conversion Info

1.0 in. = 2.54 cm	1 CFM = 1.7 m <sup>3</sup> /hr
1 ft <sup>2</sup> = .09 m <sup>2</sup>	1.0 in. WG = 249 Pa
1 FPM = .005 m/sec.	



Better Air is Our Business®

10300 Ormsby Park Place Suite 600  
Louisville, Kentucky 40223-6169  
[www.aafintl.com](http://www.aafintl.com)

Customer Service 888.AAF.2003  
Fax 888.223.6500

ISO-9001 Certified Firm

AAF has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

©2005 AAF International  
AFP-1-117 Sep '05 IM 5M