

# BioCel® M-Pak

## HIGH-EFFICIENCY EXTENDED SURFACE AIR FILTERS



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

The BioCel M-Pak high-efficiency filter offers the same media area as the traditional BioCel 12"-deep filter in a 6"-deep design. This design delivers comparable efficiency, pressure drop, and overall performance in a much smaller package.

### High Efficiency—Low Resistance

Rated 95% on 0.3  $\mu\text{m}$  particles and a MERV 16 per ASHRAE Standard 52.2, BioCel M-Pak filters have the advantage of a much lower pressure drop than a typical HEPA filter (0.36" versus 1.0 in. w.g. at 250 FPM). BioCel M-Pak filters fill the gap between ASHRAE grade high-efficiency filters and ultra-high-efficiency HEPAs at a much lower weight and pressure drop.

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

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

### Construction

The header and cell sides of the BioCel M-Pak filter are constructed of high impact polystyrene. The design, which encloses a fixed media pack, creates a rugged filter that resists damage during shipping, handling, and operation. All components of the BioCel M-Pak are fully incinerable.

### Applications

The BioCel M-Pak filter 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.

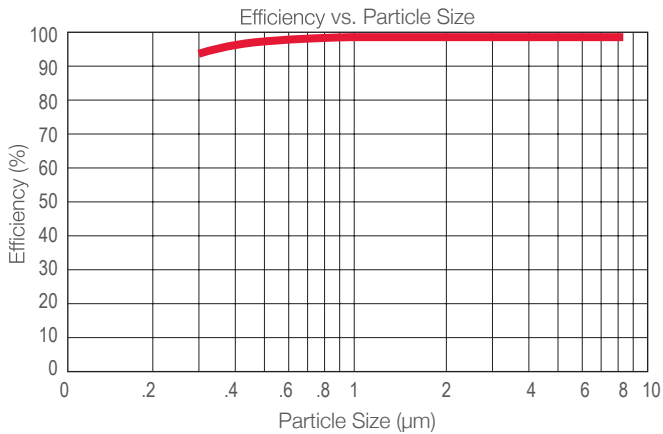
### Cost-Saving Design

Due to the smaller footprint of the BioCel M-Pak filter, 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 filters can be disposed of in the space of one 12"-deep filter.

# BioCel® M-Pak Filters

## Performance Data

### Composite Minimum Efficiency Curve



Tested in accordance with ASHRAE Standard 52.2.

## 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

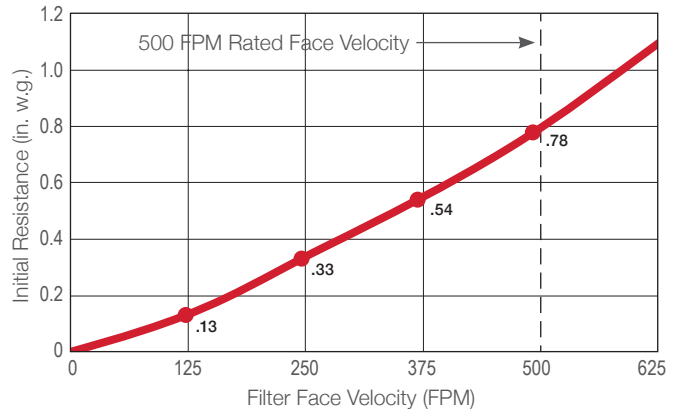
**Gaskets:** Available on request

**Efficiency:** Rated 95% on 0.3µm particles and a MERV 16 in accordance with ASHRAE Standard 52.2

## Underwriters Laboratories Classification

BioCel M-Pak filters are UL Classified. Testing was performed according to UL Standard 900 and ULC-S111.

### 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.

## 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. w.g. = 249 Pa  
 1 FPM = .005 m/sec.

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