



Microbarrier
HEPA 2000
High Flow
HEPA Filters

Microbarrier HEPA 2000 High Flow HEPA's



Microbarrier HEPA 2000 gel seal

FEATURES

- V-bank construction
- High air flow rating: 500 FPM
- Low pressure drop
- Mini pleat media packs
- Extended service life
- Reduced energy consumption
- Efficiencies available from 99.97% @ 0.3 μm to 99.99% @ 0.3 μm
- Anodized extruded aluminum frame
- Gasket or gel seal available
- Quality controlled manufacturing facility

MANN+HUMMEL Air Filtration Americas' Microbarrier HEPA 2000 high flow filters are designed for use in demanding applications where high air flow and high efficiency filtration are required. Applications include medical, pharmaceutical, microelectronics, biotech, food processing, as well as other disciplines. Microbarrier HEPA 2000 utilizes V-bank construction to maximize air flow, minimize resistance thereby offering an extended service life and reduced energy consumption. The Microbarrier HEPA 2000 has approximately 400 sq. ft. (37 m²) of media due to its V-bank configuration.

The Microbarrier HEPA 2000 features an increased media area and pleat geometry design. These features allow this filter to be used in high air flow applications. A standard capacity separator style HEPA filter is rated at only 250 FPM (1.3 m/sec) or 1000 CFM (0.47 m³/sec) for a 24" x 24" x 11.5" filter where the Microbarrier HEPA 2000 is rated at 500 FPM (2.5 m/sec) or 2000 CFM (0.94 m³/sec) – a 100% increase. This is helpful in applications where there are space limitations.

An additional feature of the Microbarrier HEPA 2000 is its low resistance – only 1.0" w.g. (249 PA) at 500 FPM (2.5 m/sec). That is a 30% reduction from separator style high capacity HEPA filters. The combination of extended media area and low resistance allows



MANN+HUMMEL's Cleanroom production area

the Microbarrier HEPA 2000 to offer 3 to 4 times longer service life than standard separator style HEPA filters.

In addition to extended service life, the Microbarrier HEPA 2000 delivers a huge opportunity for energy savings. Some statistics show that over 80% of the cost associated with filtration is in energy consumption. The Microbarrier HEPA 2000 will dramatically reduce the energy consumed due to extremely low pressure drop. The media pack is constructed of glass microfiber media mini pleated into media packs. The pleats are separated and secured by an adhesive bead separator. The Microbarrier HEPA 2000 separator system is precisely applied to promote uniform air flow and to eliminate media to media contact and to eliminate the fiber break off related with different pleating methods. The Microbarrier HEPA 2000 media pack is manufactured on a computer controlled pleater for consistent and repeatable media packs.

Microbarrier HEPA 2000 filters are constructed of anodized extruded aluminum frames. The media packs are sealed to the frame with a polyurethane sealant. Other features of the anodized aluminum frame include a protective finish that is corrosion resistant and it significantly reduces the weight of the filter when compared to other frame material options and also minimizes sharp edges of fabricated frames.

The Microbarrier HEPA 2000 offers both gasket and gel seal models to meet any application requirements. The gel seal version is available with optional extractor clips for side access housing applications where required. Contact our sales professionals at 1-877-752-5811 for a free, no obligation IAQ assessment.

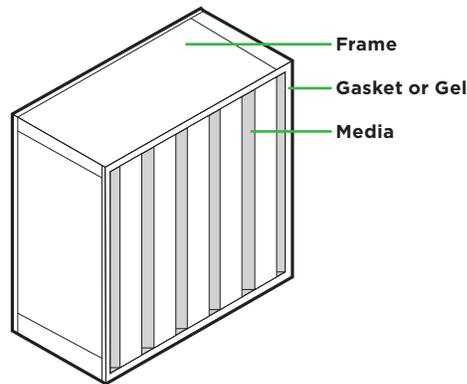
Microbarrier HEPA 2000

Technical Specifications

HEPA 2000 TYPICAL APPLICATIONS

- Healthcare
- Biotech
- Pharmaceutical
- Food processing
- Semiconductor
- Biomedical
- Universities
- Laboratories
- Industrial applications
- Photo processing
- Mushroom growers
- Research facilities

HEPA 2000 DRAWING



TECHNICAL DATA

EXACT SIZE Inches (mm) HxWxD	AIR FLOW CFM (m ³ /h) at 1.0" w.g. (250 PA)	EFFICIENCY @ 0.3 microns
23.375 x 11.375 x 11.5 (594 x 289 x 292)	923 CFM (1568 m ³ /h)	99.97%
24 x 12 x 11.5 (610 x 305 x 292)	1000 CFM (1699 m ³ /h)	99.97%
23.375 x 23.375 x 11.5 (594 x 594x 292)	1900 CFM (3228 m ³ /h)	99.97%
24 x 24 x 11.5 (610 x 610 x 292)	2000 CFM (3400 m ³ /h)	99.97%
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MANN+HUMMEL is committed to continual product development – all descriptions, specifications and performance data are subject to change without notice. MANN+HUMMEL products are manufactured to exacting criteria – there can be a ±5% variance in filter performance.

LOCAL REPRESENTATIVE