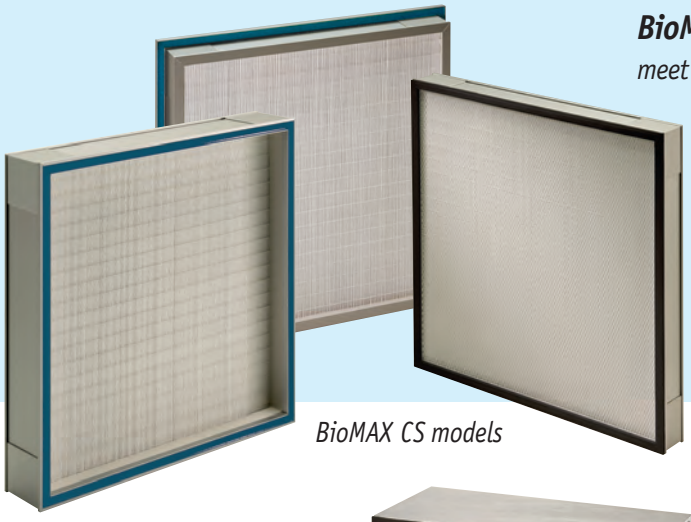
Koch Filter Corporation
Filtration Products Crafted with Pride

Bulletin No. K-603-B

BioMAX™ CS

Minipleat HEPA Filters for Clean Rooms and High Purity Applications



BioMAX CS models

BioMAX V2000 model

- **Minipleat design ensures low resistance to airflow**
- **Compact, lightweight extruded aluminum cell sides** (CS models)
- **Gasket Seal or Gel Seal**
- **Multiple Efficiency Options**

BioMAX™ CS *is a compact size minipleat HEPA filter designed to meet the stringent requirements of today's clean room applications.*

BioMAX CS filters are engineered to provide the optimum combination of efficiency and airflow. They are used in a wide range of applications, including pharmaceutical facilities, hospitals, biotech laboratories and other environments where control and removal of airborne contaminants is of paramount importance in the protection of people, processes, and equipment.

Compact minipleat design saves energy

BioMAX CS filters are manufactured with a specialized thermoplastic adhesive bead (no aluminum separators) to maintain proper pleat separation and full utilization of the filter media. Precise spacing of the glue-bead separators ensures low resistance to airflow and reduced energy costs to the user.

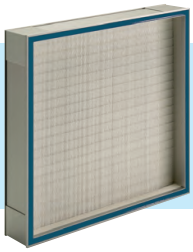
Multiple Efficiency Options

Each minipleat pack is sealed into the filter frame with a white urethane adhesive designed specifically for high efficiency air filtration. BioMAX CS and V2000 filters are available in multiple efficiencies: 99.97%, 99.99%, and 99.999% on 0.3 microns.

Cell sides engineered to fit any existing housing

Cell sides (filter frames) for the BioMAX CS are constructed of heavy-duty anodized extruded aluminum. The extruded aluminum cell sides are available in several configurations to fit any existing frame system or air filter housing: Gasket seal, Gel seal, Reverse Gel seal, and others. BioMAX V2000 cell sides are constructed of heavy-duty sheet aluminum. (See reverse for additional information).

BioMAX™CS Models



Gel Seal

- Constructed with a built-in channel in the filter frame which contains a non-flowing, non-hardening urethane gel sealant.
- Designed for framing systems and housings equipped with a "knife edge" seal. The knife edge inserts and submerges into the gel seal on the filter to prevent leakage.
- BioMAX CS with Gel Seal are available in cell side (filter frame) depths of 4 3/4".

Reverse Gel Seal

- Constructed with the built-in gel channel located at the back of the upstream side of the filter. Placing the channel in this position enables the BioMAX CS filter to fit up into the housing to save space. Access to the filter is from the room side of the unit.
- Designed for housings and ducted modules equipped with a "knife edge"seal. The knife edge inserts and submerges into the gel seal on the filter to prevent leakage.
- Excellent replacement filter for permanently installed ducted ceiling modules.

Neoprene Gasket Seal

- Constructed with a 3/4" wide by 1/4" thick closed cell neoprene gasket.
- Designed for "lay-in" frame systems requiring filters with gaskets of this type. The filter should be secured into the holding frame by a clamping mechanism to prevent leakage.
- Standard models are furnished with the gasket on the downstream face of the filter. Gaskets can be placed upstream or on both sides of the filter upon request.
- BioMAX CS with Gasket Seal are available in cell side (filter frame) depths of 2 3/4".
(Also available with wood cell sides upon request).

BioMAX™V2000

BioMAX V2000

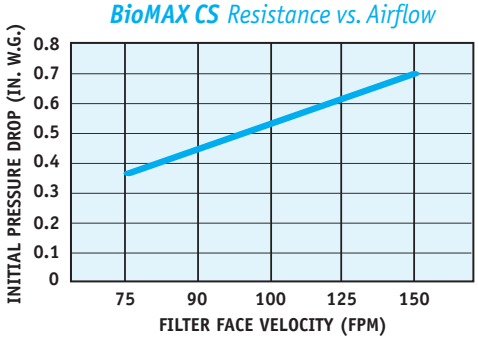
High Capacity Minipleat HEPA Filters

Neoprene Gasket Seal

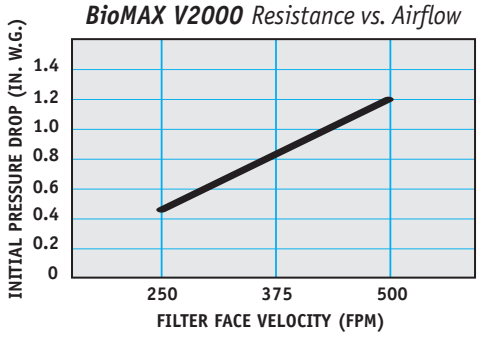
- High Capacity design (300 sq.ft. of media in a 24x24x12" frame) enables the filter to operate at 500 FPM with initial resistance of 1.20" W.G.
- Standard models are furnished with the gasket on the downstream face of the filter. Gaskets can be placed upstream or on both sides of the filter upon request.
- Constructed with ten individual minipleat packs secured in a specially-designed sheet aluminum v-bank frame.

Technical Data

BioMAX CS *Resistance vs. Airflow*



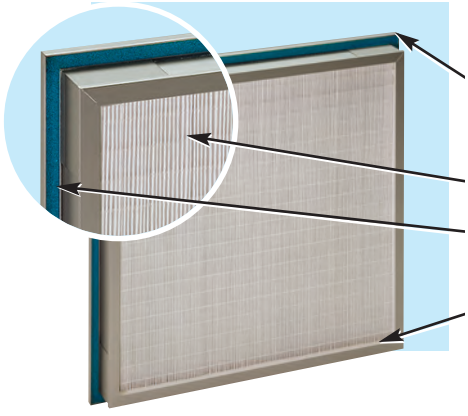
BioMAX V2000 *Resistance vs. Airflow*



BioMAX™V2000

Nominal Size H x W x D	Actual Size H x W x D	Media Area (sq. ft.)
24 x 24 x 12"	24 x 24 x 11 1/2"	300
24 x 12 x 12"	24 x 12 x 11 1/2"	130

BioMAX™CS Construction



Anodized extruded aluminum cell sides
(BioMAX CS filters are also available in custom sizes and non-standard cell side materials such as stainless steel and wood. Please contact factory for further information.)

Thermoplastic adhesive separators ensure exact pleat spacing (no aluminum separators)

Multiple gasket options:
Reverse Gel Seal (pictured here), Gel Seal, and Neoprene Gasket Seal

Specialized urethane sealant secures media pack in the filter frame

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